

# MANUFACTURERS' RECORD

A WEEKLY SOUTHERN INDUSTRIAL  
RAILROAD AND FINANCIAL NEWSPAPER.

## Southern Competition with England and New England.

### IRON.

[The London Economist.]

It is somewhat remarkable that while the production of pig iron in all the other States showed a decrease in 1906, the production of Alabama increased from 854,067 tons in 1895 to 922,170 tons in 1896. The imports of Southern pig iron into England during last twelve months would probably be about 60,000 to 70,000 tons. It is just reported that the American mills have taken orders for rails for Indian railways, the difference in price being about 20s. under English manufacturers, as also an order for water pipes to go to Coolgardie, and steel hoops are being offered at considerably less than English prices laid down both in English and foreign ports. This is in addition to the large quantities of pig iron and steel billets which have already been imported into this country. No doubt this pressure to sell is largely due to the exceptional depression experienced in America, and many are hopeful that much of this competition will disappear, if, as seems likely, some improvement will, sooner or later, be experienced on the other side of the Atlantic. We are not so certain of this, and believe that a considerable portion of the present competition will continue, especially so far as regards the supply of pig iron during the cotton season from the Southern States.

### COTTON.

[The Boston Daily Journal.]

For the first time in their history Southern mills the past year bought and consumed more than a million bales of cotton. Nothing could demonstrate more clearly the steady expansion of the Southern cotton-manufacturing interests. The year was not favorable to general business. The average consumption per spindle in the South was less than it was for the previous twelve months. The increase in the aggregate consumption was due to the building of new mills—in other words, to the multiplication of the number of spindles. \* \* And it is not strange that the rise of factory chimneys and the whirl of wheels is producing a magical change in the economic opinions of planters and business men all over the fair land of Dixie. The South now absorbs with its own machinery more than one-third of the entire cotton consumption of America. The total takings by Southern spinners in 1896-97 were, as we have stated, 1,042,671 bales, against 1,804,680 bales consumed by Northern spinners, out of a total crop of 3,757,964 bales. It is clear that our wide-awake New England manufacturers have not overestimated the formidable character of Southern competition.

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Baltimore, September 24, 1897.



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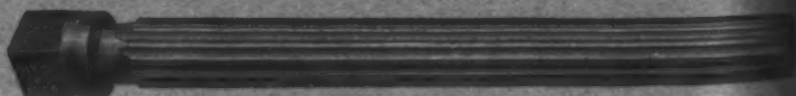


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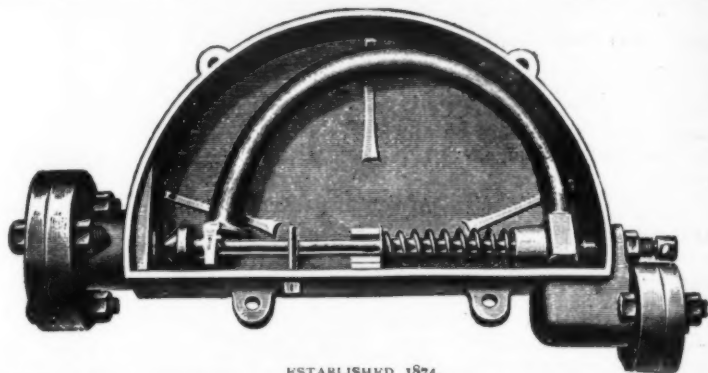
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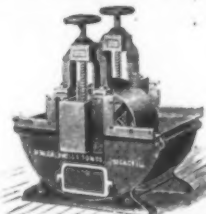


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 Newport News Shipbuilding & Dry Dock Co., Newport News, Va.  
 Struthers, Wells & Co., Warren, Pa.  
 W. D. Forbes & Co., Hoboken, N. J.  
 Newburg Ice Machine & Engine Co., Newburgh, N. Y.  
 James Leffel & Co., Springfield, O.  
 Nye & Tredick, Philadelphia, Pa.  
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 Lidgerwood Mfg. Co., New York, N. Y.  
 Davis Pdy. and Machine Works, Rome, Ga.  
 Union Iron Works Co., Selma, Ala.  
 The Bailey-Lebby Co., Charleston, S. C.  
 Charlotte Machine Co., Charlotte, N. C.  
 Mecklenburg Iron Works, Charlotte, N. C.  
 Philadelphia Eng. Wks., Ltd., Phila., Pa.  
 Remington Machine Co., Wilmington, Del.  
 Cameron & Barkley Co., Charleston, S. C.  
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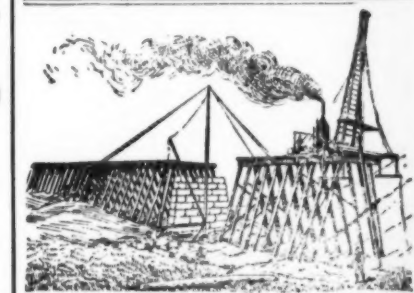
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- Pipe.** (Coll.)  
Ahrens & Ott Mfg. Co., Louisville, Ky.  
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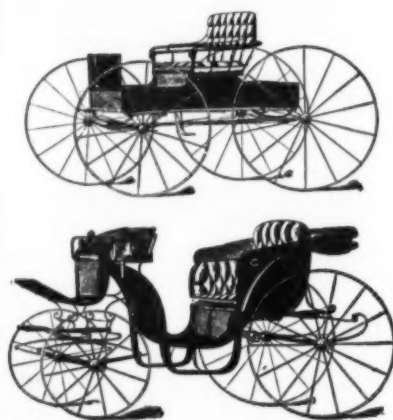


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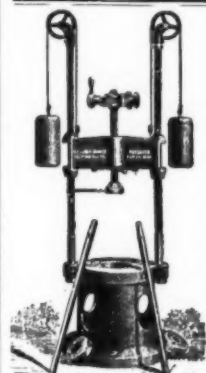
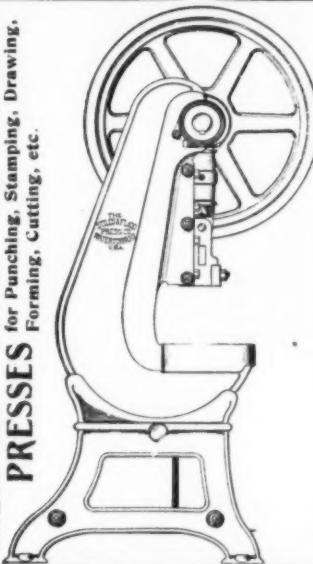
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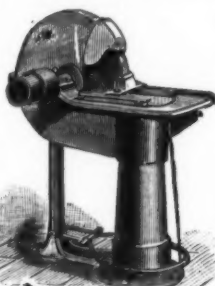
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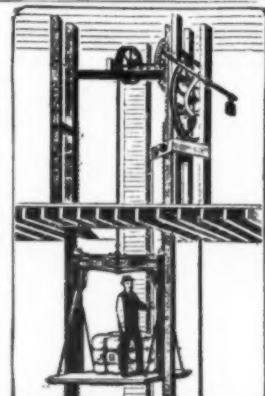


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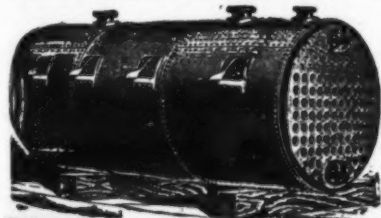
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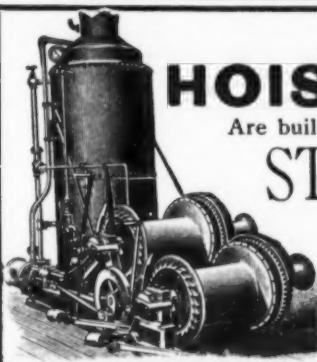
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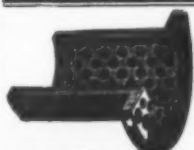
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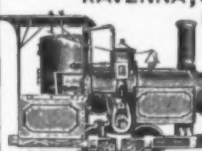
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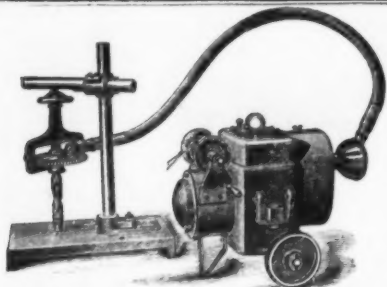
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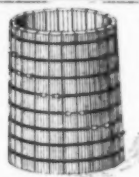
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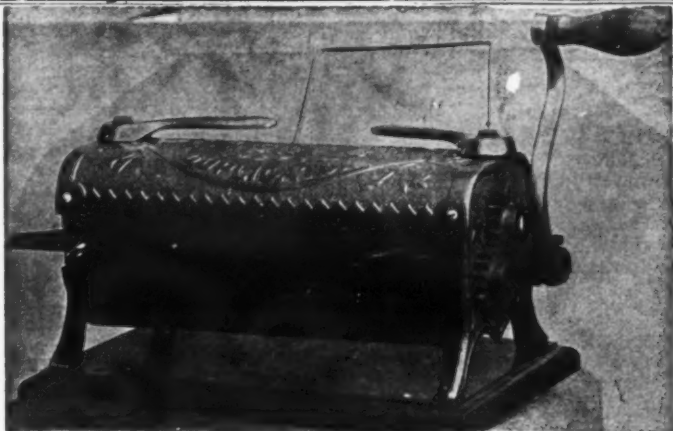
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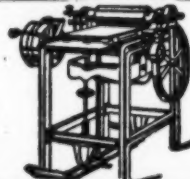
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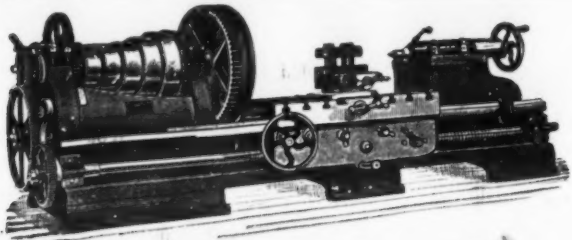
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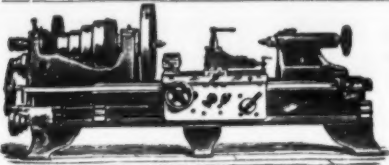
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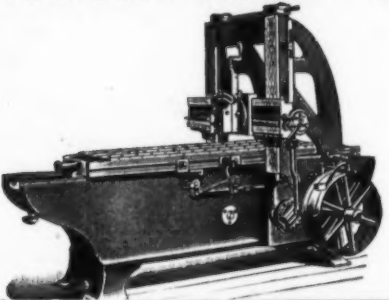
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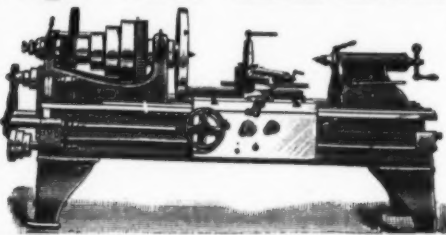


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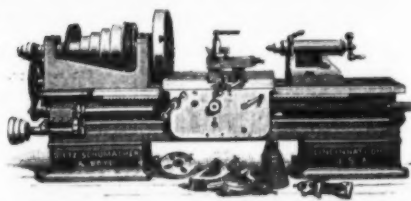


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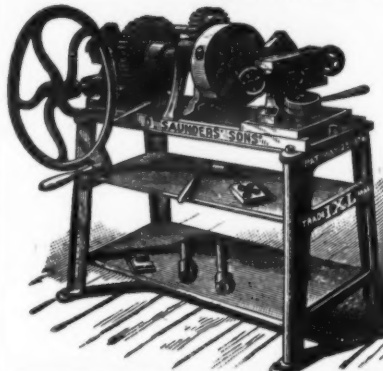
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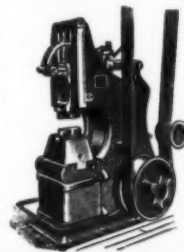
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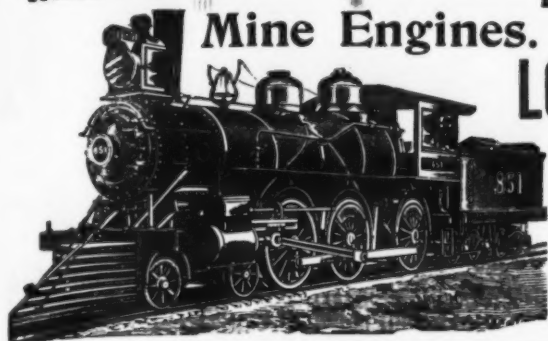
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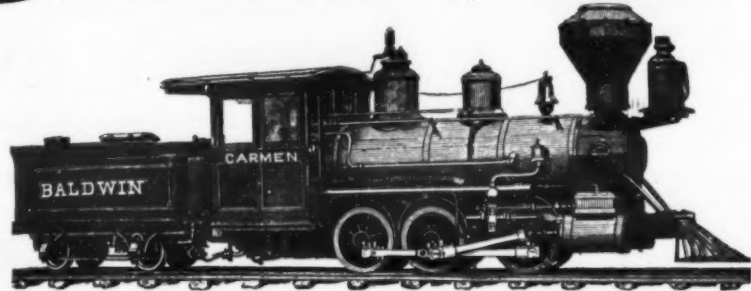
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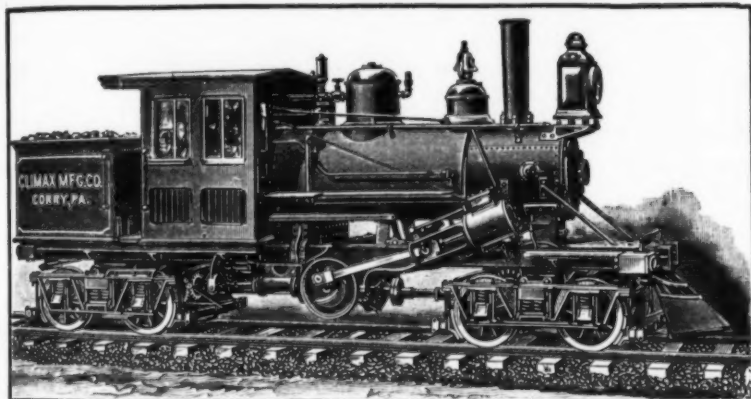
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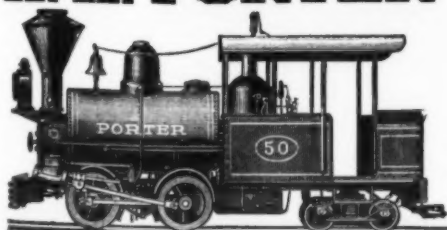
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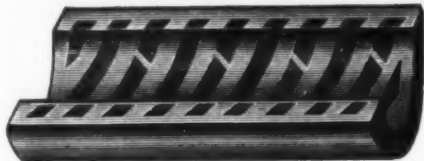
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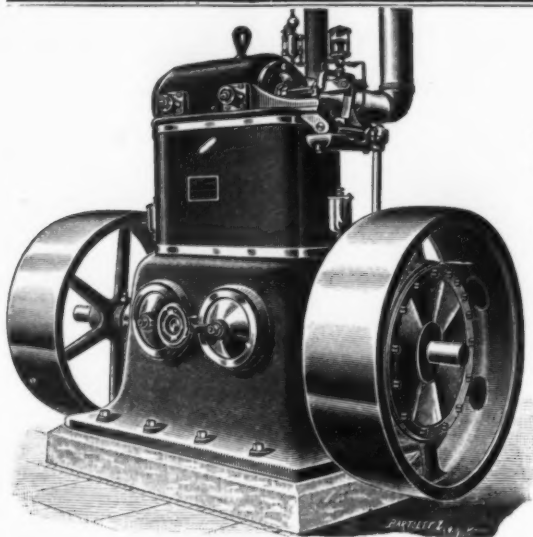
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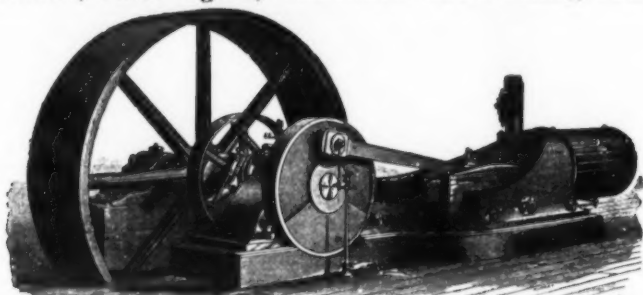
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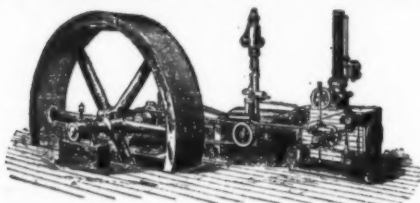
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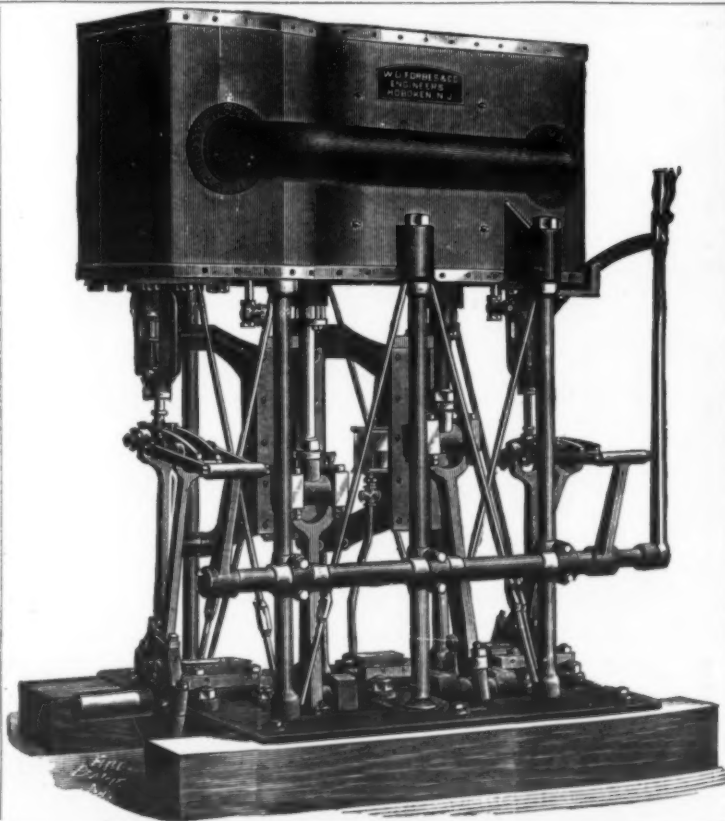
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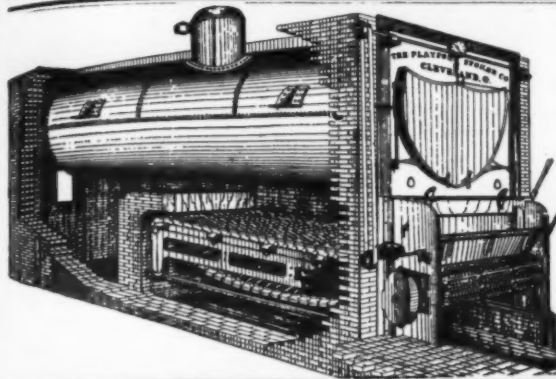
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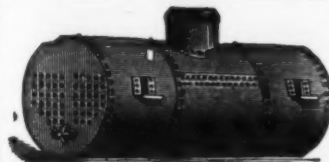
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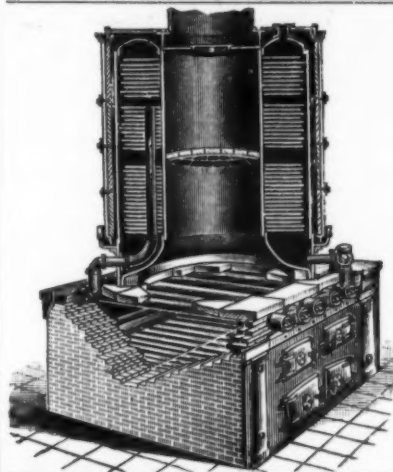
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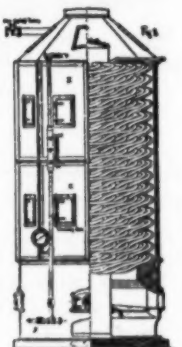
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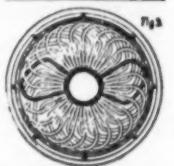


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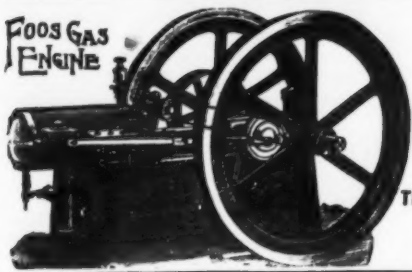


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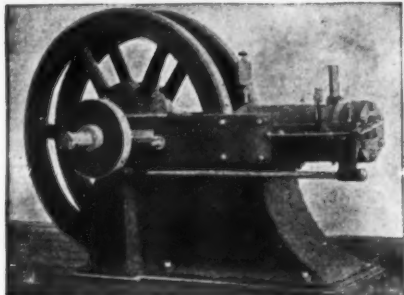
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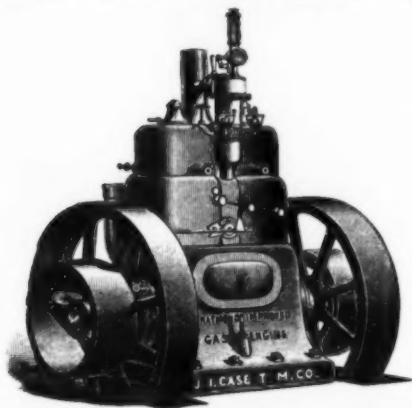
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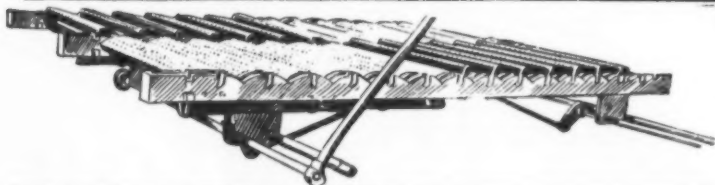
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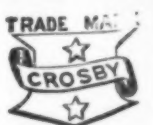
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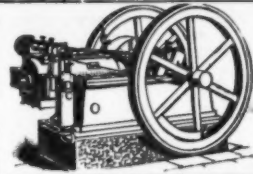
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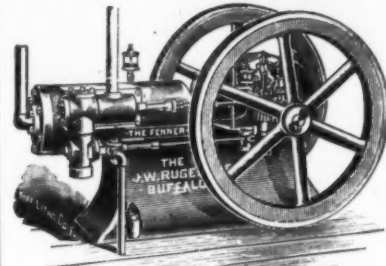
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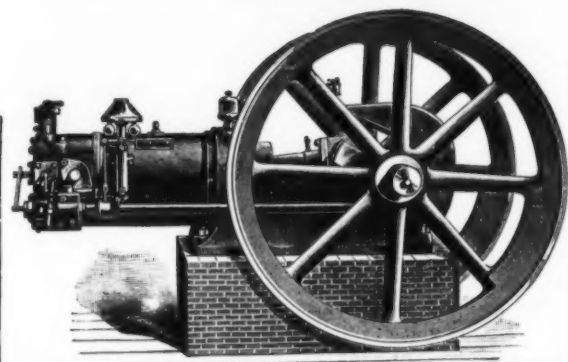
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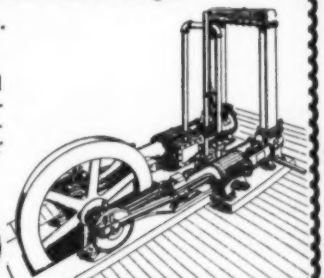
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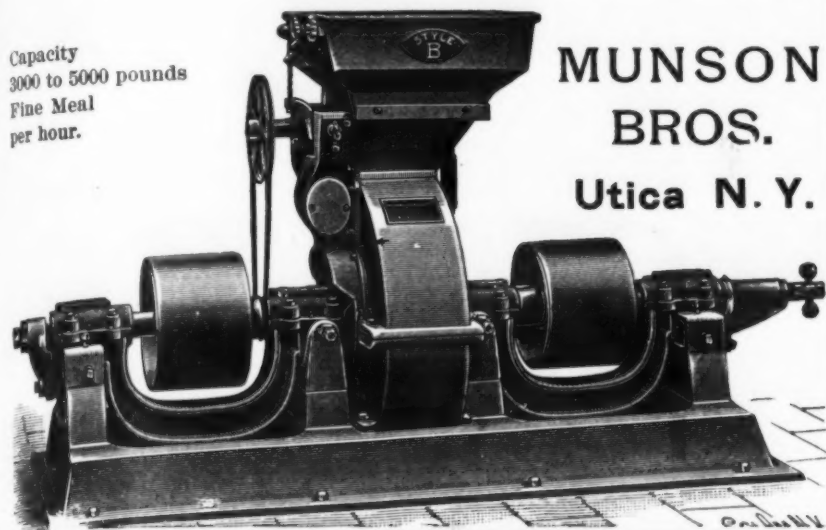
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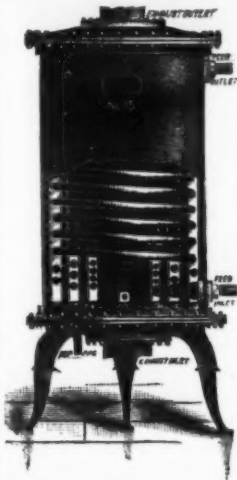
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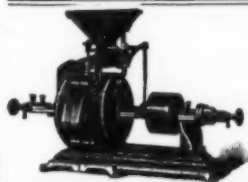
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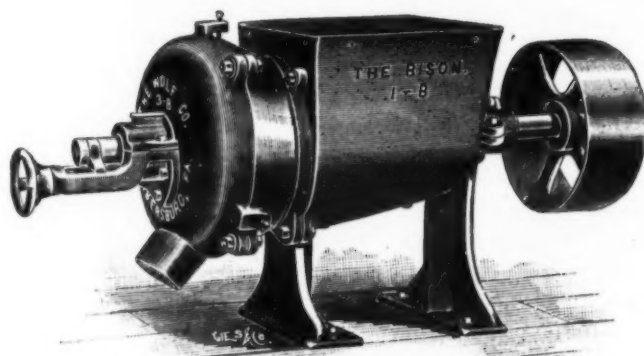


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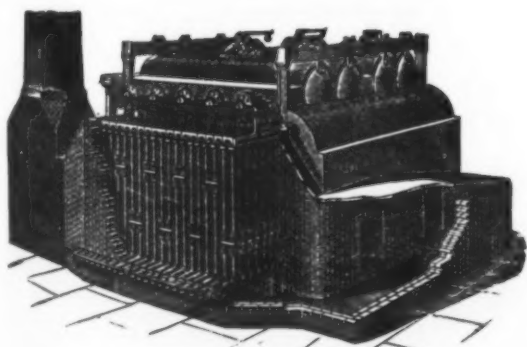
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Basket and willow.....	2	13	10,000	35,000
Ware factories.....	1	240	75,000	125,000
Breweries.....	1	1,000	167,000	300,000
Candy factories.....	1	10	2,000	6,000
Carrage and wagon wks.	6	100	100,000	325,000
Cider and vinegar.....	3	15	15,000	100,000
Cigar factories.....	9	100	60,000	35,000
Cotton factories.....	1	645	600,000	700,000
Cotton ties, etc.....	4	15	10,000	30,000
Envelope & box facty.	1	63	30,000	25,000
Fertilizer works.....	12	1,400	\$325,000	4,250,000
Flour and grist mills..	8	275	150,000	700,000
Foundries & iron wks.	3	200	250,000	300,000
Ice factories.....	2	25	75,000	100,000
Job printing and.....	8	180	325,000	450,000
Knitting factories.....	1	90	24,000	40,000
Lead factories.....	1	10	40,000	130,000
Marble & granite wks.	5	60	41,000	75,000
Mattress factories.....	2	35	27,000	70,000
Men's clothing.....	11	90	60,000	250,000
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Sail & awning factories.	5	320	350,000	850,000
Saw and blind factories.	5	250	350,000	850,000
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Shoe factories.....	1	45	21,000	120,000
Shoe and boot yards.....	1	15	25,000	60,000
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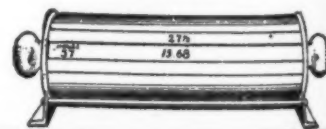
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### A Word to the Business Interests.

In an article entitled "Sowing the Wind," in this week's Manufacturers' Record, the point is made by Edward Ingle that notorious federal appointments made recently in the South are calculated to revive the moribund animosities of sectionalism, and thereby to interfere with the development of the South's magnificent resources and to alienate that portion of the country from the section that may find itself in dire need of Southern Anglo-Saxonism at no distant date.

This suggestion is one that should be studied by business men North and South, whether or not they accept the conclusions of the article. The ill effects of the policy which is responsible for the recent appointments are illustrated by the facts set forth in a "History of the Virginia State Debt Controversy," published by George M. West, of Richmond, Va. Its author, Mr. William L. Royall, a member of the bars of Richmond and New York, is well equipped for the task of presenting the striking facts of that controversy, as he was active in the political movements which culminated in the readjustment of the debt, and was the representative of the State's creditors in the litigation in the federal courts that followed. His story, though, is no mere dry narrative, but is full of force, particularly in the sections devoted to the rise of Mahoneism. Naturally the work is tinged by Mr. Royall's relations to the controversy, but it is, nevertheless, valuable.

The most valuable point about it, because the most timely, is mirrored in the sub-title, "The Negro's Vicious Influence in Politics," and most significant is the following paragraph referring to Mahone's influence:

The white people saw very plainly that it was Mahone's purpose to cajole away a part of the white people—that part in favor of repudiating the public debt—by a platform of repudiation and to join it on to the solid negro vote, the two together constituting a majority of the voters of the State, and with this conglomerate party to set up a government for the State of indecency, im-

morality and vice. The ground swell of indignation began to set in. The white people began to ask themselves, "Why should we make a further contest for the public debt? It is owned by the citizens of the North and of England. We have been struggling for the privilege of taxing ourselves to pay it, and here are the very citizens of the North who own the debt, through their President, aiding Mahone in his efforts to repudiate, at the same time aiding him to establish his infamous local government here to insult and pillage us."

Mr. Royall has here advanced a shrewd explanation of the pronounced change in public sentiment about the State's obligations. Whatever opinion may be held about its accuracy, no one can doubt that it contains a moral which ought not to be overlooked by the powers that be. Much has been justly said and written of a growth of sentiment in portions of the South unfavorable to outside capital, but the Virginia incident leads to the question, What should outside capital do to prevent a recurrence of such a policy?

In an interview on this subject published in the New York Herald, Senator Bacon, of Georgia, says:

The appointment of colored men to office in the South will certainly lead to race antagonisms and estrangements which would otherwise not exist. Such appointments are of small benefit to the few negroes thus appointed, and are of very great injury to the masses of the negroes in the ill-feeling engendered between them and the whites, upon whose friendship and good-will they are wholly dependent.

The personal relation between the whites and the negroes in the South is exceedingly kindly. Harsh treatment and violence are the comparatively rare instances. The general rule of treatment affecting the millions of negroes in the South is one of kindness and considerate personal interest on the part of the whites. The white people of the South, nevertheless, do not disguise their assertion of superiority as a race and their unwavering purpose to be the rulers of this section, both in the making and in the administration of the laws.

The appointment of negroes to office necessarily militates against this position and against this purpose, and encourages and gives opportunity for violence on the part of the lawless element which is not approved by the great masses of the white people, who are law-abiding and opposed to violence. While unalterable in the maintenance of their superiority and of their rule, it is their desire and purpose to effect this through peaceful means and not through violence.

Left to themselves, this is easily accomplished through the influence of the recognized and indisputable superiority, mental and moral, of the white race. This even temper and peaceful condition are rudely disturbed by trusting the negro with positions of authority and command which they could never attain among white people through their unaided powers.

If the debts due by the republican party to the negro politician require their political recognition in appointments to office, such appointments should be made to positions in communities whose people do not object to the posts of authority and command among them being held by negroes. Such communities and such people are not found among the whites of the Southern States.

The people of Georgia deeply regret the appointment of negroes to office by this administration, but they do not approve of violence to such appointees, and instances of such violence will be rare.

The South's sturdy Anglo-Saxonism, which has been pointed to by business men as a bulwark of protection to this nation against every kind of un-Ameri-

canism, and which in the campaign against free silver was appealed to by the business interests of the country, will not heed future appeals if the race issue is again permitted to be forced to the front.

Let the business interests give another manifestation of patriotic power; let its voice, heard and hearkened to all over the land a year ago, now be heard in no uncertain sound against a revival of the race issue, and thus of sectionalism, with its certainty of a "Solid South" and a "Solid North," to disturb all business interests again.

### The Nicaragua Canal.

One of the most valuable features of the September number of the Review of Reviews is the article on the Nicaragua canal commission. This trio, appointed under act of Congress by President McKinley to make a final investigation and report upon the Nicaragua canal route and upon all the engineering and financial aspects of interoceanic transit across Central America, are Prof. Lewis Muhlenburg Haupt, of Philadelphia; Rear-Admiral John J. Walker and Capt. O. M. Carter. In this combination of civil, military and naval engineering ability is the hope that the project demanded by the commerce of the world is at last to take the definiteness and positiveness which will carry it to accomplishment.

The civilian member of the commission, Prof. Lewis M. Haupt, has long been regarded as one of those far-seeing men who realize the importance of the canal enterprise, and his training and experience will undoubtedly be of immense value in the work. He is an engineer by inheritance. At fourteen he was level-rodman, amanuensis and private draughtsman to his father, at that time in charge of the construction of the Hoosac tunnel. Graduating from West Point in the engineer corps, he began work as a military engineer on the great lakes, but was shortly transferred to Texas and placed in charge of road construction and river improvements in the fifth military district. Resigning from the army, he became assistant examiner in the engineering department of the Patent Office. For twenty years he occupied the chair of civil engineering in the University of Pennsylvania, in the meantime having been appointed by the general government to superintend surveys for range lights on the Delaware river, in the fourth lighthouse district, and to assist in the coast survey dealing with the geodesy of Pennsylvania. He was one of the judges of the department of transportation at the Paris Exposition, and prepared the report on the railroad plant of that exhibition. During the last few years he has devoted himself to canal work and water transportation, being particularly interested in the proposed great coastwise canal between New York and Pennsylvania. In concluding the sketch of Professor Haupt's life in the Review of Reviews,

Mr. Henry W. Lanier, showing how natural it was for the President to select him for a member of the Nicaraguan commission, says:

Concerning the actual route, Professor Haupt can, of course, say nothing at present, but his views on the canal scheme itself are eminently broad and characteristic. He believes it unquestionably should and will be built. Its exact location and cost, while most necessary of determination, can in no way affect this general conclusion. Whether it costs \$100,000,000 more, as Senator Morgan declares it will, or \$133,000,000, as Colonel Ludlow has estimated, or even \$200,000,000, is, in a broad view, immaterial. It represents a colossal annual saving which the world of commerce has a right to expect and to demand, and of its profitability he himself has not the slightest doubt. The opposition to it, which has been industriously fomented by some of the transcontinental railroads, is peculiarly shortsighted on their part, for the transportation experts agree as to the truth of the apparent paradox that water competition is decidedly beneficial instead of injurious to the railroads.

"Look over the stock market," suggests Professor Haupt, "and select the roads whose stock is away above par; in nearly every case you will find these lines compete with deep-water traffic;" and at the Deep Waterway Convention a few years ago a similar statement was made to the effect that "railroads which are paying dividends are running in competition with water in every case."

The explanation of this is found in the facts that facilities increase commerce, that a large local trade is stimulated by the canal and that the railroad gets the bulk of the refined and manufactured products, which go through the canal in their raw states.

Taking this view of the subject, it is fair to reason that part of the inspiration of great railroad systems to reach the Gulf ports and to secure first-class facilities there was of a most practical, if not prophetic, character. While the whole world will derive benefits from the halving of the Western Continent by a great waterway; while the United States, by constructing it, must derive immense commercial profit, the South, especially that portion bordering upon the Gulf, must be peculiarly affected for good. The completion of the canal, under United States auspices, will give this country the command of the trade of the greater portion of South America, of China and Japan, and of the islands of the Pacific. Much of that trade will originate south of the Potomac, and even that coming from other points must pass, in great measure, through the ports of the Gulf.

It is impossible to estimate the tremendous impulse to greater development which the whole South will thus receive. Capital necessary to meet the demands of commerce at great ports will be forthcoming; where now there is one plant for the handling of iron and its products, there will be fifty; spindles of cotton mills will be duplicated and reduplicated; the output of the coal mines will tend to approach their immense capacity, there will be a rapid multiplication of minor industries, an influx of population of the best kind, and the consequent demand for a greater diversification of agricultural products.

The South, as well as the rest of the



country, wants the Nicaragua canal, and it will await with eagerness the results of the investigations by the new commission.

#### Col. Isaac W. Avery.

Southern newspapers generally have during the past two weeks paid tribute to the memory of Col. Isaac W. Avery, whose sudden death in his Southern home was a shock to his friends in all parts of the country. Readers of the *Manufacturers' Record*, to which he was a constant and frequent contributor, knew him as a man devoted to his section, full of quick discernment of influences that might aid in its development, and energetic and persistent in furthering them. He was a ready writer, whether in history, journalism or promotion, was magnificently equipped with valuable facts, and had the ability to present them with telling effect. During the later years of his life, which were full of action in war and peace, he was largely interested in developing direct trade from Southern ports, and had abundant opportunities to preach that campaign while he was commissioner of the Atlanta Exposition to the South American republics, but he did not permit that subject to engross his attention, for he continued and extended, whenever the occasion presented itself, the lines for Southern expansion, which he had laid down as editor of the *Constitution*, in the sixties. By his pen and by his journeyings to and fro he became a national figure, standing for the revived South, in its desire to share in the progress of the republic, and he made many friends for his section. But those who had the privilege of personal acquaintance, extending over several years, while they admired the qualities of his mind, were equally attracted by the loveliness of his disposition, a characteristic that was irresistible during his life, and will remain the beautiful background of his memory.

Whether or not the editor of the *Cosmopolitan* had inside information about the preliminaries of the much-discussed case of President E. Benjamin Andrews, no one can fail to admire his ability to seize time by its opportune forelock in announcing the founding of the magazine's university. The incident suggests a large attendance upon the university of students of the art of advertisement.

#### SOWING THE WIND.

##### How Selfish Politics for the South May Affect Material Interests of the Country.

*Editor Manufacturers' Record:*

If any enemy of the South desired to check its industrial and commercial growth, he could devise no better plan than that which seems to have been adopted by the dominant influence of the republican party. I know that the *Manufacturers' Record* is not a political paper in the sense of supporting the claims of any party. Its only concern is to aid in the healthy development of the South and to work for the removal of elements antagonistic thereto. Upon such a basis it has never hesitated to advocate any measure, born of whatever party, which would benefit the South, or to denounce any movement calculated to impede it. It has done all within its power to rid the South of the rule of the demagogue and the curse of unending political discussion of all kinds. It has noted with satisfaction the decadence in this country of those movements which

had kept alive the spirit of dwarfing sectionalism and the disappearance, in the necessity for the support of vital principles, of the irritation of what is known as the race question.

Because of the attempt to revive such an issue, the *Manufacturers' Record* should urge all business men in all parts of the country to insist upon a change of programme which has been announced by recent actions. Not long since the *New York Commercial Advertiser* said: "Since the close of the Civil War there has never been a time so favorable as the present for the creation of a solid and reputable Southern republican party. The fear of 'negro domination' through the operation of force bills, backed up by federal bayonets—a spectre which haunted the Southern imagination long—has wholly vanished. There will be no more force bills. For well or for ill, wisely or unwisely, the nation has committed to the Southern States themselves the power and responsibility of dealing with their colored population. The republican party stands for sound money and stable credit; it stands for the comprehensive defense of American industries; it has come to represent in our national life today the forces of order and of conservatism as against the forces of destruction and mad dishonesty which have taken possession of the democratic party and are driving it down the precipice to unknown depths. For these reasons republicanism ought to be attractive to the best citizenship of the Southern States. There is here a promising field for the construction of a new, worthy and powerful organization devoted to the teaching of republican principles and the promotion of republican politics."

About the same time the *American Manufacturer*, of Pittsburg, Pa., showed how whatever good the republican party might or might not stand for in this country could be absolutely nullified, when it said that the great social bugbear of the South was working out its own solution, and that it would have been done long ago "but for the agitation by politicians and carpet-baggers who used the negroes for their own ends, flattered them by promises of social equality and profited by their credulity. The respectable white element of the South looks with horror upon the idea of social equality, and with good reason. Those unfamiliar with conditions in the South may call it prejudice, but that does not alter the case," and added: "A recent illustration was the appointment of a negro barber to the position of collector of internal revenue for the State of Georgia. It was a great mistake. There was every indication that the Empire State of the South would at the next election declare for the republican party and protection, but white supremacy is the first consideration. The better element considers the appointment of a negro to such a position a direct slap in the face, and it will not be forgiven."

There is the whole thing in a nutshell, and from a Northern authority. Whether to meet obligations for a past nomination, or to arrange the lines for a subsequent one, the deliberate disregard of public sentiment in Georgia and of common decency in Louisiana cannot be regarded in any light but as a deliberate purpose to restore the condition where democracy meant white and republicanism black, and will be felt equally in New York and Massachusetts as in Maryland and Louisiana. Its effects will be as far-reaching as ever.

In the first place, nothing can have a more baneful paralyzing effect upon a community than the realization that

there is a dead line beyond which no energy may go. The fifteen or twenty years succeeding the war were marked by such a situation in the South, the result of selfish party politics and a manifestation of long-range philanthropy approaching insanity in its intensity and in its disregard of consequences. The climax of buncombe and hypocrisy was reached in the so-called force bill. The advocacy of that measure brought the evil consequences of the ruinous policy straight home to the business men of the North and West interested in the South, who realized what they meant, and their protests upon practical grounds were the endorsement of Senator A. P. Gorman's efforts, as a friend of the South, to shelve the bill. Since then capital in the North has acquired a greater interest than ever in the preservation of the stability of the South, and the last national campaign was most significant in that it demonstrated that as the shadows of a positive dread disappeared the whites of the South could divide intelligently upon national questions as they had done at earlier periods, and could thus prepare the way for a cultivation of the larger national spirit so beneficial for all.

But should there be a persistence in the outrageous policy which is now pursued, the South, in self-defense, will again become solid. That will, of course, retard the South. But it will have a more extensive effect. In spite of the results of last November, men who are able to read the signs of the times cannot escape the conviction that the day is not far distant when the North will be in absolute need of the latent, real conservatism of the South to maintain its institutions in safety.

What this implies may be comprehended by reference to the fact that the South, which is free from the foreign revolutionary elements so potent in other sections, was most prompt in sustaining President Cleveland at the time of the Chicago trouble of three years ago, and views with alarm for the North the spectacle of the Pennsylvania militia substituting almost every year actual service in the field for its annual encampment.

A South made solid by the suicidal pressure of the dominant party at present in the North could hardly be depended upon in the time of stress at the ballot-box or otherwise to save the North which had permitted that pressure.

Business interests will be the first to feel the effects of a success again of radicalism in the North. Business interests should call a halt upon the party which owes its existence today to their aid in the time of extremity.

In brief, the degenerating plan now formed means the subordination of the intelligent work of material advancement to the preservation of the purity and integrity of the white race. It means a situation menacing alike to the North and to the South, in which the unrest of political excitement will be maintained indefinitely, and the tendency of conservative men of all parties to unite for the common good, irrespective of party lines, will be suddenly checked.

No one but an enemy of his country could conceive such a plan or shoulder its responsibility. EDWARD INGLE.

#### IRON AND STEEL MATTERS.

##### Important Investigations by Foreign Experts.

[Special Cor. *Manufacturers' Record*.]

Birmingham, Ala., September 21.

In the iron market great firmness prevails, and if conditions permitted free sales for spot and nearby delivery there would be an advance. As it is, the principal interest has instructed its selling

agents to stop sales for 1897 delivery and consider now 1898 delivery, and up to March only. Some of the furnace interests are in position to feed a limited demand for nearby delivery, and they are doing it at prices showing some advance. There has evidently been some dissatisfaction with the method of conducting sales of iron, as is evidenced by circulars sent out by the Sloss Company announcing the following plan for disposing of its product:

"1. All sales are to be approved by us, and signed contracts are to be exchanged.

"2. All invoicing to be made by us direct to the buyer.

"3. All settlements to be made to our order and sent direct to this office."

This system retains the selling of the product in the furnace hands, and makes the selling agent the furnace agent, and nothing more, and the validity of his sales is testified by the furnace contract. It will bring the principals into closer contact. As to the export trade, all reports agree in stating it as quiet. There has been a recession in rates of freight, and but for the large sales made to the domestic trade there would be more activity in it. There has been an important sale of coal lands in Walker and Marion counties to a Mr. Wellman, a New Orleans capitalist. It is not known yet whether it is an investment or if mines will be opened. The coal interest continues to report great activity, and miners have been imported from disaffected districts until all are employed who can be profitably used. The daily output now is estimated at 27,000 tons. Concerning the Mannesman deal nothing more can be said until the decision of the European head of the firm is received. Your correspondent has been shown letters from the expert who represented the firm, and his report upon locality, facilities and advantages of this point says every thing that could be said in favor of the location of the plant here. While upon this subject it is not amiss to say that in the interest of other German firms a German engineer and expert has been here to examine into the conditions offered, and he has made to his principals the same character of report that Dr. Ihene made to the Mannesmans. When such representatives make such reports we can well be indifferent to the cold water thrown at us by other localities which fear the scepter of supremacy may leave them for its natural home at Birmingham. A good barometer of business conditions is the movement of cars, as shown by the report of the Car Service Association. This shows that for August just passed they handled 21,343 cars, against 18,619 for August, 1896, and a total for the year of 169,216. Everything indicates that the total for the current year will exceed that of last year. There are some new enterprises incubating that may be kept back by the yellow-fever scare, and this possibility makes it discreet to defer mention until they hatch out. Information from primal sources is to the effect that the owners of the Gate City Artesian Wells have completed all financial arrangements for the erection of water works to supply this city and suburbs in competition with the works now existing, and initial proceedings are being taken to commence work. We will never suffer from a water famine. The minor industries continue to make favorable reports. Some districts for which they have had orders are in the quarantine limits, and the suspension of business there may work some injury here. But we are so near the end of the hot season that it can be temporary only, and an impediment that will be removed by the first frost.

J. M. K.



## Matters of Interest at Houston.

[Special Cor. Manufacturers' Record.]

Houston, Texas, September 20.

While the people of Houston have a most heartfelt sympathy for the affliction which has befallen New Orleans, they have found it necessary to quarantine against the great Southern metropolis. The old story that "it is an ill wind that blows nobody good" is illustrated through the yellow fever being at New Orleans, for it has had the effect of greatly increasing the business of the wholesalers and brokers of Houston.

Over 100 of the leading truck farmers and market gardeners have formed an association for the purpose of acting as a unit in shipping their surplus garden products to Northern markets. The local gardeners produce a great deal more than they can dispose of advantageously in Galveston and Houston, and as a great amount of new land is being put in cultivation for the production of vegetables, self-preservation has forced the market gardeners to form this organization.

An important convention is to be held in our sister city of Galveston October 5, the principal purpose of which will be to see that Texas is properly represented at the Transmississippi and International Exposition to be held in Omaha, Neb., in 1898. A delegation of sixty-five leading business men of Nebraska will be present, and it is expected that every city and important town in the State of Texas will be represented by a good delegation.

The secretaries of the different commercial organizations of the State of Texas recently met at Austin and organized the Texas Commercial Secretaries' Association. All will work together for increased immigration. The encouragement of home industries will be an important feature urged by this association. The next meeting will be held at Galveston October 5, in connection with the convention to secure a Texas exhibit at the Omaha exposition.

Every Monday night the real-estate men of Houston hold an informal meeting at the rooms of the Houston Business League to discuss questions of paramount interest to this city and South Texas. These meetings have resulted in a great deal of good, not only to the real-estate men, but to the whole community. Through these meetings the immigration to South Texas has been greatly increased.

The yellow-fever scare may have lessened, but it has by no means stopped the immigration into Texas. The people of the North and West are reading the news very closely, and they have confidence that Texas is thoroughly and effectively quarantined against the infected district. A gentleman from Iowa remarked this morning to your correspondent: "If Texas succeeds in keeping yellow fever out of her borders this year the result will be worth millions of dollars to the State as an advertisement."

The fight between the Mallory and Lone Star steamship lines, running between New York and Galveston, still continues. The Lone Star Line commenced with a steamer between Galveston and Boston. The Mallory Line last week sent a steamer direct from Galveston to Boston, loaded principally with cotton.

Two veneer and basket factories are investigating this city and surrounding country with a view of locating. One manufacturer told your representative that 350,000 packages were used by the fruit-gravers between Galveston and Houston last season.

The lumber business still continues bright, and the outlook is by no means unfavorable.

## MORE LETTERS OF HOPE.

## Reasons Why Business Men and Manufacturers Look for Prosperity.

The Manufacturers' Record presents this week a continuation of the series of letters from prominent manufacturers and others giving definite reasons of their hope for prosperous times. Such men are not accustomed to deal in dreams. They are obliged to assemble many facts and weigh many items before they venture upon conclusions of any kind.

When, however, they are found enlarging their plant, adding to their pay-rolls and extending their operations generally, it may be taken for granted that they have a clear-seeing vision to justify the belief on the part of others that trade and industry in all their branches are reviving. As one of the correspondents of the Manufacturers' Record truly says, no boom may be expected. But the more satisfactory condition of steady, healthy development is looked for, and there are excellent grounds for the expectation.

These appear in the following letters:

## Crowded with Work.

The Stilwell-Bierce & Smith-Vaile Co., engineers and contractors, Dayton, Ohio: "We are glad to be able to report a very decided and marked improvement in business in our lines. The fact is that in some departments we are crowded with work, and in all departments are fairly busy, a thing that has not been true for the past four years. We also note a very decided improvement in the tone of our correspondence. Inquiry is much more favorable, and all the indications point to the fact that we have at last emerged from the hard times, and have entered upon a period of prosperity."

Climax Manufacturing Co., Corry, Pa.: "We are having many more enquiries of late than usual. We recently shipped the sixth locomotive that we have furnished to Wm. Whitmer & Son's Companies. We are now completing a 30-ton locomotive for the E. E. Jackson Lumber Co., of Plantersville, Ala., and have secured orders from the Colorado & Northern Railroad for their freight engines, besides having orders for two locomotives to go to West Virginia. Our traveling men report a better feeling among the lumbermen, and the prospects for future business are much better than for some time."

## No Man Need Be Idle.

Mount Hope Coke Works, Johnstown, Pa.: "Is trade increasing? Are more men being employed? What is the outlook? To the first it can be safely answered that trade is increasing; just how much can be seen in the increased earnings of railroads, especially in the case of the Pennsylvania Railroad, which is in touch with so many manufacturing industries along its main line across the State of Pennsylvania. To the second inquiry it can be answered in the affirmative; more men have been and are being employed. Speaking for this portion of Pennsylvania, no man need be idle who wishes to work; there are abundant employments for all. The outlook is quite hopeful; this is answered by the very abundant crops, with a ready market abroad at favorable prices. The tariff measure has established confidence at home, as progress in a wide variety of works is manifest. Many manufacturing firms have advanced wages 10 to 20 per cent., and the feeling of assurance is growing stronger, month by month. The demand for coke is increasing in a healthy way, and its price is looking upwards. In Johnstown a number of new buildings are going up, and contracts closed for

others. Its Board of Trade is securing a number of manufacturing industries, and is feeling the upward hopeful trend of business enterprise. A 'boom' is not anticipated, but a feeling of continued healthful business for a number of years is becoming a settled conviction amongst our people."

## Working Double a Force.

I. H. Page, president and treasurer J. Stevens Arms & Tool Co., Chicopee Falls, Mass.: "While we are glad that there is such a bright future for the American farmer, and, in fact, for the general business of this country, we have been as busy as bees could be since last October, and have been obliged to run our works many hours overtime, and if it had been possible to have secured sufficient skilled help in our line of work, should have run a force both day and night. We think that during dull times too much crying is done over such dullness, and if each one would only pitch in and do all they possibly can, it would shorten such periods of depression greatly. We are working double the force that we were a year ago, and the outlook was never brighter, and our only regret is that we are unable to turn out all the goods that we can sell."

Geo. Otis Draper, secretary the Draper Co., Hopedale, Mass.: "General business in our section is undoubtedly improving. In our immediate line we are very dull, as our customers, the cotton mills, are not yet able to sell their product at a profit, although prices have improved so that they are not all obliged to sell at a loss."

M. Zier & Co., boiler and sheet-iron works, New Albany, Ind.: "We have more men on our pay-roll than we have ever had in the history of our business. Most of the shops in our line in this vicinity are busy, and the general outlook is very encouraging."

Puchta, Pund & Co., rubber and leather belting, etc., Cincinnati, O.: "It gives us great pleasure to report to you very much improved business. For the last sixty days we have found a very decided improvement in our business, and we cannot help but think that it is going to continue. We feel, with the immense crops throughout the country, increased prices and a settlement of the tariff, removing uncertainties in this direction for a time, is going to help us in business without question. We feel that the next few years is going to give us good business in every line."

The Cincinnati Milling Machine Co., Cincinnati, O.: "We are employing more men at the present time than ever before in the history of our business. While we are doing a very large export business, we are very much pleased at the fact that for the last two or three weeks we have noticed quite a decided improvement both for inquiries and orders from the home market. From all that we see and hear, we believe that better times are upon us. The outlook is more encouraging now than it has been for several years."

## Faith in Revival.

De Louch Mill Manufacturing Co., Atlanta, Ga.: "Trade in our line is improving almost daily. Our shops have been and are still running extra time, and we are preparing a further increase in capacity. Our faith in the immediate revival of business is demonstrated by the recent establishment of branch houses in both Little Rock and St. Louis. We are

shipping them large supplies of goods to both points for the trade for the fall and winter. Indeed, it seems as if it will be impossible for us to fill all the orders at the present indications. We are receiving orders from all parts of the world, as well as throughout the States."

H. H. Babcock Co., builder of fine carriages, Watertown, N. Y.: "Business about here is beginning to look up considerably, and manufacturers are making arrangements for a good increased business during the coming year. Our business has been excellent during the past season, and we look for at least 20 per cent. increase this coming year. The prices for most all kind of farmers' produce has advanced quite materially, and with a good price for all kinds of grains, butter and cheese, we cannot help but have a great increase in trade the coming year."

Clarence C. Chaffee, secretary and treasurer Southern Saw Works, Atlanta, Ga.: "Referring to your favor of the 30th ult., we beg to state that our business is largely on the increase, as we think it is with all reputable manufacturing concerns in our section. We are now building a fire-proof addition to our plant, increasing its capacity, and have put more men on recently to meet the demand for our goods. The outlook with us, and, we think, with most concerns, is quite favorable for the fall trade."

## In Real Estate.

The Southern Real Estate Exchange, Clarksburg, W. Va.: "The business condition in this section is an improvement upon any year since 1894. We are experiencing no boom, but there is a perceptible expansion in trade, every industry is running on full time and no man is out of employment unless it be by his own free will, except a part of the coal miners in this section, who are on a 'strike,' which will have a speedy termination. The outlook was never more encouraging for a prosperous year. Nearly everyone is confident of bettering his condition, and the creditor is becoming more lenient to the debtor."

Rhodes, Dickelman & Co., Forest, Ohio: "While we see that increased prices, due to famine abroad, bring to our American farmers for their produce in 1897 a temporary relief, we do not see any outlook for continued prosperity, if the benefit so derived can be called prosperity, unless it should please an Almighty Providence to spread famine and poverty broadcast throughout all the countries with the exception of the United States of America. We should be glad to see prosperity return, but we do not see it in present conditions, and if there should be plentiful harvests abroad next year we see little chance for improvement in conditions from what they were a month ago, before the settlement of the tariff question and the elimination of the free-silver agitation. We do not give this from a partisan standpoint, but as business men accustomed to study the condition of the times for the improvement and promulgation of their business interests, and we see little hopes for encouragement in the future in present conditions."

## No Calamity-Howlers.

J. D. Hardy, president Calera Lime Co., Calera, Ala.: "There is no doubt but we are now entering on better times. Greater activity is seen in every industry. Business men and manufacturers are feeling better, and pursuing their various interests with greater energy. No calamity-howlers are heard. They have simply howled out. Business is better; prices have advanced; the outlook never more encouraging. The South can now, with the proper effort on her part, enter on a career of develop-



ment, and with it great growth and prosperity never dreamed of. Only be wise in legislation. Partisan politics, demagogery and bad legislation are now hurting the South."

#### Capital Is Easy.

Charles Adamson, president The Cedartown Cotton Manufacturing Co., Cedartown, Ga.: "I am perfectly satisfied with the general condition of the country since the election; confidence has been restored to such an extent that industrial work is again possible and most promising. As the direct result of the election in my own business, I have been able to raise all the capital necessary to put my operations in first-class shape. Had it been otherwise I would have applied for a receiver, as it would have been absolutely impossible to have raised the money that I have since done. My cotton mill is running night and day and making as fine hosiery yarn as is put on the market from anywhere. I started on the night run just before the election, feeling confident of the way it was going. I have absolutely no complaint to make about business; it is such that I am now preparing plans for a very large increase in my milling interests. Real estate in this section is again starting to move; there have been several sales here lately, the first in four years. Prosperity, now actually here, has put at rest the old fallacy about free silver, or the unlimited coinage of silver at the ratio of 16 to 1. Business of all kinds is picking up; every one is getting back to work, and I confidently expect a great period of prosperity for this section, with another large influx of capital from the North and abroad, as every one I talk to says that, now business conditions are settled, the South is the place that the money is to be made in by industrial development. In brief, I am perfectly satisfied with the present conditions, which, I find, are actually improving daily in regard to the volume of business and the prices now ranging. I cannot close without commending your most valuable paper for the great work it has been doing for years to teach the proper ideas about money and protection to the people of the South. I consider your paper is doing the best work that has been done for years, to show the possibilities for honest, intelligent work in the South."

#### Prosperity Is Apparent.

Elyton Company, successor to Elyton Land Co., Birmingham, Ala.: "Practically all thinking business men in this section are unanimously of the opinion that we have already entered upon a period of great activity and prosperity. We are not disposed to discuss the question as to whether the settlement of the tariff question, the elimination of free-silver agitation, or any other influence, has served to bring about the change. The fact is apparent, and our people have set to work to take advantage of the opportunities that may come through a more active business, and as far as circumstances may permit, build up the waste places and develop the superior natural advantages possessed by this section. The general condition of business is good, trade is increasing, and we are reliably informed that more men are now employed in the Birmingham district than at any time within several years past. The outlook is very encouraging, and even those who a year ago were amongst the 'croakers' are now cheerfully looking forward to a period of prosperity and progress."

The Colliery Engineer and Metal Miner, Scranton, Pa.: "Business conditions in the city of Scranton have materially improved in the last two months. The manufacturing establishments of the city are all busy, and within the past few weeks the Board of Trade of this city,

through its efficient secretary, has succeeded in locating several important new industries here. The advertisers in 'The Colliery Engineer and Metal Miner,' who are manufacturers of mining machinery and supplies, inform us that there has been a decidedly favorable change in the number of inquiries and volume of business offered, and our own experience in conducting the International Correspondence Schools, the majority of whose students are artisans, shows that skilled mechanics of all classes throughout the country are feeling the effect of the improved condition of things. We consider that the evident general betterment of the financial condition of the mechanics and skilled workmen throughout the country is the strongest testimony as to improved business conditions."

W. Seabury Simmons, 908 Wool Exchange Building, New York, machinery for manufacturing cotton and wool, etc.: "Business prospects are brightening, and some enquiries that look like business, not enquiries only. Woolen mills are getting busy generally; hosiery mills the same, and cotton mills doing better and renewing operations. I think 1898 will be a record-breaker in prosperity in this country."

#### Impouring of Orders.

Phillips & Buttorff Manufacturing Co., stoves, hollowware, etc., Nashville, Tenn.: "This company has already experienced quite an impouring of desirable orders, and the prospect for exceptional business in the near future is unparalleled. We anticipate some difficulty in providing sufficient goods in every line to meet the demands, and our foundry department is becoming sorely taxed by execution of orders from the more far-sighted buyers throughout the thirteen Southern States. Arrangements now in contemplation will necessitate quite an increase in the number of men employed, and within sixty days we will be running to our fullest capacity in every department. While there are some sections that have not as yet caught the fever, all merchants who visit the Centennial of late are loud in their expression of gratification at their local prospects. Of one thing we are especially proud—the wave of prosperity is unquestionably rolling from the South."

F. H. J. Davis, Davis Sulphur Ore Co., New York: "To me the outlook for business seems unusually promising. The natural increase in the volume of business in this country is enormous, as it has been held in check for the past three or four years. I do not see how anything can prevent a large increase in business the coming season, although I do not think we are to have an extraordinary boom, but that the improvement will be steady. The past three years have been very trying, and the curtailing of business and credits have had the effect of making the prudent business man very cautious. Besides, they have worked hard, have not extended their operations, and have decreased their obligations materially; consequently, they are now on a sounder basis than at any time of the present generation. My trade is certainly increasing very materially, and every one with whom I come in contact reports the same conditions. More men are being employed, and, to me, the outlook in every direction promises far better than for many years."

Deerlick Oil Stone Co., Chagrin Falls, Ohio: "There are more men employed in and about Chagrin Falls this fall than ever before in its history. Our local manufactories, the Ferrosted Stove and Sad Iron Works, the Ober Lathe Co. and handle works, are running full time, with plenty of orders. The Chagrin stone quarry, that had a very limited

shipping business for the past three years, is now sending out ten to twelve carloads per day, with orders to keep them busy till cold weather stops them. As to our own business, we are having more mail orders than ever before, and they come from all directions, from San Francisco and New Orleans, as well as points East, West and South nearer home, indicating to our mind a general revival of business. We reason that when building revives tools sell, and when tools sell oil stones are wanted; hence our orders may be taken as a good pointer towards a general revival of business."

#### Generally Good Feeling.

Frank P. Milburn, architect and superintendent, Charlotte, N. C.: "The Piedmont section of North Carolina has not suffered like other sections of the State. At present I have work going up in Kentucky, Virginia, West Virginia, North Carolina, South Carolina and Georgia, and cover considerable territory. The outlook is good. There seems to be a general feeling of better times; tobacco, wheat and cotton bringing a good price, naturally stimulates business. We can only hope the prices will hold up."

The Taylor Engine Co., Chambersburg, Pa.: "Business with us has been very fair since the advent of the present administration. Trade shows signs of improvement, and we feel confident of a very largely-increased fall trade over that of 1896. We are employing more men than a twelvemonth since, and are adding to our force constantly. We feel that the future will see an improved condition of trade in all branches, but that same will be by easy stages. We have considerable faith in an enlarged trade in foreign sections, and during the past year have had a number of very satisfactory export orders."

The Yale & Towne Manufacturing Co., New York: "The hardware trade is usually among the last to suffer from depression of business, and for like reasons cannot reasonably expect to be among the first to feel its improvement. It is not surprising, therefore, that the change for the better, which is reported in the public press, is as yet but little felt by the hardware trade. In our opinion, however, the latter will, in due time, enjoy its share in the general improvement of business, especially when this has continued long enough to stimulate activity in building operations. On the other hand, the producing capacity in this line is so largely in excess of any probable consuming power of the country as to make it unlikely that increased volume of business will bring with it a restoration of prices to the level of former years. What is chiefly to be hoped for now is that further tariff legislation may cease for at least a few years, and that wise measures may be adopted for effecting a safe and permanent solution of our financial problems, whereby the credit of the government and the soundness of our currency may be placed above doubt, and cease to be disturbing questions in business affairs."

#### New Ventures Made.

Arminius Chemical Co., Mineral City, Va.: "Business is certainly increasing at a rate thought to be beyond any expectations six months ago, and the uncertainties of the period just after the holidays have given place to plenty of orders from the men of all others who were most cautious, and slow in seeing prosperity ahead of us at that time. We have nothing but a series of increased business ventures to record for the mines of this section, and the coming twelve months will see better times on this mineral belt than ever before in ten times

the period. New houses are going up, and improvements are the order of the day at these mines, and among those dependent upon them. Our own new venture this year is the establishment of a fertilizer factory, and sales of the spring just passed have been so successful as to warrant us in stating that we shall have a large industry here in future. The mines of this section are now supporting a population of about 3500 souls, with every sign of prosperity among them. The United States was credited with a total tonnage of pyrites during the year 1896, as per government reports, of 115,400 tons. Of this tonnage, Virginia raised about 70,000 tons. This year we are sure to put into market over 100,000 tons from this State, and if this is not assured prosperity we are not in the right position to see the outlook. The consumers of our ores are among the best business firms of this country, and their early orders for so large an amount of pyrites promises a greatly-increased trade throughout the entire South."

#### In the Western Reserve.

Frank A. Smith, real estate and insurance, Elyria, Ohio: "Prosperity has surely struck this section of Ohio. The general condition of all classes of business is very much improved. The farmers and fruit-growers are reaping a glorious harvest for their efforts of perseverance and continuance of well-doing. A great many years have elapsed since they have realized the present prices for the cereals and products of their farms, and it seems that nature is doing her part to further the good cause by bearing all products of the soil in abundance. Farm lands have advanced in prices from 5 to 15 per cent. all over this section. Shops are starting in the towns with full force and on full time. In our immediate locality the Johnson Company, manufacturer of iron and steel rails, is enlarging its plants and increasing its output largely, and is employing from 1800 to 2000 men, both night and day teams. It is rumored that it will build coke ovens and blast furnaces. Should it do so, this will mean an outlay of probably \$1,000,000 and an additional force of men. The electric car lines are being built from town to town, and our maps are beginning to look more like spider webs than maps of the Western Reserve as it was thirty or forty years ago. The electric lines are cutting heavily on the local traffic of the old steam lines that have independently held away for so many years. All the laboring men are feeling confident of better times, and are building their own homes more this summer than ever before. In our own town of probably 10,000 people, there are now under construction fifty-two buildings, the cost of not one less than \$1000, and several above \$5000. The general condition of all parts are better, and we are in hopes to have a continued course for an indefinite time to come, and that McKinleyism and good gold will make for us not only Klondikes and Leadvilles in figure, but in name."

Whitney & Sloo Co., Limited, manufacturers of saddlery, harness, collars, etc., New Orleans, La.: "The jobbing business of this city has been better this summer than ever before. There is promise of equally good fall trade. The country merchants seem to be buying earlier than usual in anticipation of higher prices. It depends altogether on the price received for our cotton crop whether or not the aggregate business will be much more than normal. The section immediately around New Orleans has been much benefited by the tariff on sugar and lumber, which has given a great impetus to both these in-



industries. More men are being employed and higher wages being paid, and the outlook is the most flattering we have had for a number of years."

Wm. B. Mereson & Co., lumber and boxes in shooks, etc., Saginaw, East Side, Mich.: "As yet we have noticed no improvement in our business; '97 has been even duller with us than '96, and it has been particularly dull since the first of July. Our main business is in the distributing of white-pine lumber in earload lots for the Eastern trade. Lumber always is slow to decline at the beginning of a dull season, and it is equally slow to advance in price or increase in demand after other lines of business feel the effects of a revival in trade. The Western manufacturers of lumber, especially in the Duluth district, report an increase in the volume of business they are doing, which we attribute to the fact that the advance in the price of farm products came at a time when the farmers yet had their products of their farm in their own hands, and, therefore, are enabled to realize the benefit of good crops, higher prices and a prompt market. They are receiving more money than they expected to, and they are spending it liberally. Eventually, we suppose, the Eastern trade in lumber will feel the effects of this. We are also manufacturers of packing boxes, and think we notice an increased demand within the last ten days by reason of manufacturers starting up and putting on more hands. Prices are ruinously low, and it will be some time before they advance. We also manufacture band resawing machines, and while we have a good many inquiries of late, so far orders have been no more plentiful than for the past two years. With us collections are slow. We anticipate a good business another year if some unforeseen controversies in labor troubles or something of that kind does not arise."

#### Only Slight Damage at Sabine Pass.

Mr. Jos. O. Osgood, manager of the Sabine Land & Improvement Co., Sabine Pass, Texas, in a personal letter to the editor of the Manufacturers' Record referring to the recent storm, says:

"We have been very fortunate here, and escaped the storm with but little injury. A few poorly-constructed buildings have been blown down or moved from their foundations, and some damage has been done to small craft in the harbor, three or four tugs having been sunk and three men reported drowned in one of them. No one was fatally injured on shore here, and only one person received severe injuries. He had a leg broken from the overturning of a boarding car. The storm was not accompanied by much rise in the waters of the Gulf, and no injury was done here from that source."

This will be gratifying news to those who had supposed, from the accounts in the daily papers, that the storm had done very serious damage at Sabine Pass.

The Southern Irrigation Congress, at its recent meeting at Nashville, Tenn., elected Prof. J. B. Hunnicutt, of Athens, Ga., president; H. C. Gardner, of Nashville, Tenn., vice-president, and W. Whidby, of Atlanta, Ga., secretary and treasurer.

The county commissioners of Georgia have formed a society known as the County Commissioners' Association. Hon. J. N. Featherstone is chairman, and J. D. Kontz, secretary. The object of the association is the general improvement of the roads in the State.

If you wish to keep posted on the progress of the South, read the Manufacturers' Record. Price \$4.00 a year.

## RAILROAD NEWS.

[A complete record of all new railroad building in the South will be found in the Construction Department.]

### Georgia Southern & Florida's Report.

Another Southern railroad company has made public its annual report, and shows a surprisingly satisfactory condition of affairs. It is a road which in 1895 was in the hands of a receiver, and has been reorganized on a legitimate business basis. We refer to the Georgia Southern & Florida, which extends from Macon to Palatka, Fla., a distance of 285 miles. It has been in control of the present company since 1895, with Mr. Samuel Spencer, president of the Southern Railway Co., as its executive head. The report submitted at the recent annual meeting showed that the net earnings from operations for the year were \$272,834.19. This is an increase of about \$14,000 over the previous year. The percentage of fixed charges under the present management is so small that the board of directors has been enabled to declare a dividend of 5 per cent. on the first preferred and 2 per cent. on the second preferred stock for the year, amounting to \$216,000.

The Georgia Southern & Florida is not only a conspicuous instance of what conservatism and ability in management will do for Southern railroad companies, but is also an example of the benefits of immigration to railroads in the South. For several years this company has had a land and immigration department, in charge of Mr. William L. Glessner, who has been carrying out a broad and comprehensive plan to induce Northern and other settlers to locate along the road. A large amount of its freight business has originated from the farms of these immigrants, of which there are several thousand. They have increased largely the fruit and vegetable shipments, which form one of its most important sources of revenue, and have contributed to the earnings in many other ways. As an indication of the increase in the number of settlers along the Georgia Southern & Florida, the earnings for the mail service alone during the year were \$8980 greater than during the previous year. Altogether the report is very satisfactory to those who are interested in Southern railroad conditions and realize the benefit of immigration to the South.

### A Maryland Enterprise.

The project of building a railroad line between Washington and Chesapeake bay at Point Lookout has been revived, and a company incorporated under the title of the Washington, St. Mary's Bay & Point Lookout Railroad Co. for this purpose. The Security Trust & Insurance Co. of Philadelphia advises the Manufacturers' Record that the railroad company has made an issue of \$1,250,000 in 5 per cent. bonds for the purpose of building the road. A. R. Linderman, of No. 1001 Chestnut street, Philadelphia, Pa., is president of the company, and H. L. Montgomery, treasurer. The road is projected to Point Lookout, which is at the mouth of the Potomac river, and would extend through Prince George's and St. Mary's counties, also through a portion of Charles county, a distance of about seventy miles.

### Tennessee Northern Completed.

The completion of the Tennessee Northern Railway to the property of the LaFollette Land & Improvement Co. was made the occasion of a meeting at LaFollette, Tenn., at which a number of prominent citizens of Knoxville and other towns in the vicinity were present. Appropriate exercises were held, includ-

ing speeches by A. A. Glasier, president of the railroad company; E. T. Warner, general manager of the town company, and Hon. H. B. Lindsay, of Knoxville. The new town has about 800 population, with several industries in operation. A number of dwellings and other buildings are now in the course of construction.

### Railroad Notes.

D. Willard, superintendent of the New Orleans Traction Co., has resigned his position.

The report of the Alabama Car Service Association for the month of August shows that it handled 8574 cars more than during the corresponding month of last year, an increase of 70 per cent.

G. M. Deane, of Dallas, Texas, claims to have invented a locomotive which can be operated on ice. Mr. Deane states that the locomotive can use petroleum or gasoline as fuel, and that he expects to construct an engine very soon.

The Houston East & West Texas Railroad Co. has ordered seven 10-wheel locomotives from the Baldwin Locomotive Works, of Philadelphia. The engines will weigh between sixty and sixty-two tons each, and will have 50-inch driving-wheels.

The report of the sale of the Birmingham, Powderly & Bessemer Railroad to the Birmingham Railway & Electric Co. has been confirmed. The line referred to is twelve miles long, and has been operated by steam-power. It is reported that the motive power may be changed to electric.

A dispatch from Louisville, Ky., announces that the Louisville & Nashville Railroad has made arrangements to operate a line of steamships between Pensacola and Bremen, to be known as the Pensacola & Bremen Steamship Line. The first steamer will sail from Pensacola about October 20.

The annual meeting of the Atlanta & West Point Railroad Co. resulted in the election of Mr. George C. Smith as president. This is a deserved tribute to Mr. Smith's executive ability, as it has been largely through his policy that the Atlanta & West Point Company has been brought to its present high standard.

A dispatch from Newport News states that the Lord Line of steamers has determined to include that city in its service, and its first sailing will be made November 2. Vessels will leave Newport News twice a month. The Lord Line controls a number of large freight carriers, and will handle miscellaneous export freight.

A recent issue of the New York Herald contains a description of three locomotives being built for the Southern Railway Co. by the Richmond Locomotive and Machine Works. These engines have already been referred to in the Manufacturers' Record, and are classed as among the largest ever built in this country.

The Ferguson Contracting Co., of No. 69 Wall street, New York, has secured a contract to construct an extension of the Detroit & Lima Northern Railroad from Dundee to Detroit, Mich., a distance of forty-four miles. It has also secured a contract for the construction of forty-six miles of the same road in Ohio, making a total of ninety miles of work.

The annual meeting of the Nashville, Chattanooga & St. Louis Railroad Co. adopted the report of the president, which showed gross earnings of \$5,116,118 and a surplus of \$403,015. The usual quarterly dividend, amounting to \$400,000, was declared. J. W. Thomas has been re-elected president; J. H. Ambrose, secretary and treasurer; J. G. Maney, com-

troller, and Hunter MacDonald, chief engineer.

In addition to the new steamship lines from Southern ports already referred to in the Manufacturers' Record, the Charleston Transport Line has been established for regular sailings between Charleston and Liverpool, Bremen, Hamburg, Barcelona, Spain, and Genoa, Italy. Three steamers of this line have already arrived at Charleston to load for Europe.

According to a dispatch from Birmingham, Ala., the Illinois Central is reported interested in the recent purchase of 15,000 acres of coal land in Walker and Marion counties. It is reported that an extensive vein underlays the property, and that the railroad will use it for its coal supply. The purchase was made through L. B. Musgrove, president of the Corona Coal & Coke Co., of Birmingham, and others.

"The Book of the Royal Blue" is the title of a monthly publication which is to be issued by the passenger department of the B. & O. The publication will be under the direction of Mr. D. B. Martin, manager of passenger traffic. Mr. Martin is a firm believer in railroad companies having their own papers, and published one of the brightest papers of this class—"The Big Four Gazette"—when he was general passenger agent of the Cleveland, Cincinnati, Chicago & St. Louis road, the "Big Four" system.

### Mayor McHugh Answers Mr. Bosley.

#### Editor Manufacturers' Record:

I see in your issue of September 10 that you have interviewed Mr. Bosley on the subject of the Pensacola Electric Street Railroad, and in it he has stated what are not facts. In the first place, there is not ten miles of the electric road built; neither did the board of health prevent them from working for the past ten months. They have laid about six blocks of rails and then stopped. They have not commenced to build a power-house, but they did have an option on a building that had been formerly used by an electric-light company, and they have allowed the option to expire without renewing same, just as the franchise expired. Mr. Bosley sent an engineer here to commence and complete the work, "so he stated." The company has not asked for any extensions, consequently the mayor and city council declared the franchise forfeited under section No. 20, which reads that the road should be completed and in full operation by September 1, 1897. To all appearances Mr. Bosley and his associates have not acted in good faith towards the city of Pensacola, and I cannot understand how he could have made the statements that he has. As for the action of the mayor and council tending to prevent investments of capital in Pensacola, I would beg to say that there is no city in the South where investors are treated more liberally than in Pensacola. This franchise was a most liberal one; in fact, prevented anyone from using the streets for the same purpose for a space of thirty years. I would be glad if you would call and see Mr. Bosley and ask him to let you see a copy of the franchise, and after reading I am then willing for you to judge the matter.

PAT. McHUGH, Mayor.

Pensacola, Fla.

The Commercial Club of Kansas City, Mo., has elected Wm. Barton, president; A. E. Stilwell and H. W. Evans, vice-presidents; W. B. Thayer, treasurer, and E. L. Clendening, secretary. Vice-President A. E. Stilwell is president of the Kansas City, Pittsburg & Gulf Railroad Co.



## TEXTILES.

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the Manufacturers' Record. We shall be glad to have such matter at all times, and also to have any general discussion relating to cotton matters.

## A Profitable Mill.

The directors of the Crown Cotton Mill, of Dalton, Ga., held their annual meeting last week. The affairs of the company were shown by the officers' reports to be in the best possible condition. A 10 per cent. cash dividend was declared and a 6 per cent. stock dividend. The president, Mr. Geo. W. Hamilton, was instructed to add to the mill during the year any improvements that became necessary in the course of operations. Three new directors, Messrs. W. M. Patton, of Sweetwater, Tenn.; W. J. McDaniel, of Calhoun, Ga., and Dr. C. P. Gordon, of Dalton, were added to the directorate. This company operates 10,000 spindles on duck.

## Textile Notes.

The Coosa Yarn Co., of Piedmont, Ala., will add considerable new machinery to its mill, removing same from its Philadelphia branch.

It is said that the Ashby Cotton Mill, of Marion, S. C., will double its plant at once. Philadelphia parties and A. M. Price, of Lincolnton, N. C., are interested. The mill now contains 2750 spindles.

The Eagle & Phoenix Manufacturing Co., of Columbus, Ga., operating about 50,000 spindles and 1500 looms, has commenced operating day and night, a night force being put on last week. The mill is in receivers' hands.

The Mayo Mills, of Mayodan, N. C., has commenced the erection of a 50-foot addition to its mill building, to be used as an opening room. The mill has 15,000 spindles in operation now, and is said to contemplate building a new mill.

The Odell Manufacturing Co., of Concord, N. C., has decided to establish a roller-covering works in connection with its mill, and order for full equipment of the necessary machinery has been placed. Outside mills will also be enabled to have work done by the company.

Messrs. G. W. Hinshaw, of Winston, N. C., and W. F. Trogdon, of Greensboro, N. C., are interested in the proposed formation of a woolen manufacturing company. It is contemplated to locate a mill at North Wilkesboro. Northern parties are said to be interested.

The regular annual meeting of the stockholders of the Eufaula Cotton Mill was held at Eufaula, Ala., on the 15th inst. The following board of directors was elected: Messrs. J. W. Tullis, S. H. Dent, A. H. Merrill, J. M. Edmondson, M. M. Beringer and G. L. Comer. Officers will be elected this week.

The improvement recently noted as decided upon by the Sutherland Manufacturing Co., of Augusta, Ga., will consist of the addition of 4000 spindles to the mill. The order for this machinery has been placed, and it will soon arrive and be placed in position. Mr. J. M. Head is manager of the company.

The Enterprise Cotton Mills, of Orangeburg, S. C., has been authorized by the stockholders to increase the capital stock from \$60,000 to \$100,000. Samuel Dibble, president of the company,

stated that the purchase of necessary machinery to put the plant in operation would be necessary, and this step was decided to provide the funds.

The directors of the Victor Manufacturing Co., of Greer Depot, S. C., have determined upon an issuance of \$60,000 in preferred stock; the funds acquired from the sale of which will be used to pay the present indebtedness. A further issue of \$40,000 in stock is contemplated, and if definitely decided upon the money will be expended in the purchase of 5000 additional spindles. Lewis W. Parker, of Greenville, S. C., has been chosen president of the company.

The South Chattanooga Business League, of Chattanooga, Tenn., is interested in a movement for the starting of a cotton mill in that city. Messrs. Phillips & Pearce propose that a \$100,000 stock company be organized to secure control of the Vance & Kirby mill. This mill contains 1000 spindles, and improvements could be readily made and new machinery be added and operations resumed in thirty days, producing hosiery yarns, for which there is a good local demand.

The Rock River Cotton Co., of Janesville, Wis., purchased from the American Cotton Co. the cotton taken from the debris after the destruction by fire of the company's experimental plant some months ago, as mentioned in the Manufacturers' Record. A letter from the Rock River Company states that the bales with the ends cut off opened as well as if they had never been burned. From the other bales the ends were picked off as they were unrolled. The water had not penetrated the cotton, and it was damaged much less than they had anticipated.

Mr. Charles W. Davis, of Graniteville, S. C., until recently president of the Warren Manufacturing Co., of Warrenton, S. C., writes that he has completed the organization of the company and transferred the affairs of the company to the board of directors and the new president, Mr. Eugene F. Verdery, of Augusta, Ga. Mr. Verdery recently became interested in the enterprise, and induced other investors to become interested, and has assured the completion of the mill now in course of erection. The site of the mill is on three railroads twelve miles north of Augusta, and includes over 500 acres of land, on which the new town of Warrenton, S. C., has been located. The mill building is intended to accommodate 30,000 spindles, but only 15,000 spindles will be installed at the start. These latter have been ordered, and will be put in place next spring.

"Chilhowee: A Legend of the Great Smoky Mountains." By Henry V. Maxwell, with illustrations by Clara T. Gresham. Publishers, S. B. Newman & Co., Knoxville, Tenn.

In this volume, which may be regarded as peculiarly a Knoxville product, Mr. Maxwell has embodied in smoothly-flowing verse one of the many legends of the Cherokees. There is too little of the poetry connected with the aborigines of the South accessible to the general reader, and in sending forth his volume Mr. Maxwell has conferred a distinct favor upon his section. The preparation of the illustrations for printing might have been better, but that is a feature which may be remedied in a second edition. Mr. Maxwell is an attractive writer in more than one line, and his "Chilhowee" appeals to every Tennessean and others who have viewed the picturesque scenery of the eastern part of the State.

## COTTONSEED OIL.

This department is open for the full and free discussion of trade topics and practical questions, and contributions are invited from men who are identified with this industry. Items of news are always acceptable.

## The Market for Cottonseed Products.

New York, N. Y., September 21.

A dull market prevails, with no important development to report; prices have declined, and the bullish sentiment which existed recently is less pronounced. The favoring conditions which created the bullish sentiment referred to are unchanged, however, the present slump being considered of a temporary nature merely. Nevertheless, those who purchased several weeks ago in the expectation of a further advance in prices have been keenly disappointed at the market's course, especially if their circumstances do not permit of carrying the stocks until the expected reaction sets in. Lard has varied in price throughout the week, at one time dropping twenty points, owing to the yellow-fever scare. This circumstance naturally affected cotton-oil values unfavorably, inasmuch as the demand which was making itself apparent as a result of the needs of compounders was checked. January lard, Chicago, is quoted at 4.90 cents, the indications that higher prices will obtain during the present week being of an encouraging character. Tallow has exhibited a declining tendency also, owing to stock accumulations and lack of demand, prices being nominally quoted at 3½ to 3¾ cents. New crop oil is now making, most of the mills being in operation, while arrivals of crude and refined are expected at this point from Galveston within a week. It was expected that the decline in prices would have stimulated the export as well as the domestic demand for cotton oil, but the near approach of new crop oil at possibly lower prices was the incentive to purchasers to defer operations for the time. Ocean freight rates are still maintained on a high basis of prices, 4s. per barrel to Marseilles and 3s. to Liverpool being quoted. To France were consigned during the week 3100 barrels, however, chiefly on old contracts; to the United Kingdom 550 barrels, and 1500 barrels in miscellaneous lots to various ports in Southern Europe and South America. It is worthy of note that Mexico is purchasing largely of new crude for soap-making purposes. Receipts for the week aggregate 3400 barrels. Refined oil is reported scarce and firm in Liverpool, prices ranging from 16s. 6d. to 17s. 3d. in export barrels, according to quality. The following are closing prices: Crude, prime, 23 to 23½ cents; crude, prime, f. o. b. mills, 18 to 19 cents; crude, off quality, 21 to 23 cents; yellow summer, prime, 26½ to 27 cents; yellow summer, butter, 30 to 32 cents; yellow summer, off quality, 25 to 26 cents; white summer, 30 to 31 cents; yellow winter, 34 to 36 cents; white winter, 35 to 37 cents, and soap stock ½ to ¾c. per pound.

Cake and Meal.—Already a large proportion of the new season's cake output has been contracted. Prime cake has been advanced in Liverpool from £5 17s. 6d. to £6 5s. per ton, while the home-made undecorticated cake is selling at £4 5s. 5d., and linseed cake at £7 1s. to £7 7s. 6d.

## Cottonseed-Oil Notes.

It is stated that E. P. David and others, of Dalton, Ga., will build a cottonseed-oil mill.

Articles of incorporation of the New South Oil Co., of Helena, Ark., were filed last week. The capital stock of the company is placed at \$50,000. The in-

corporators are E. S. Ready, James B. Johnson, W. A. Short, E. C. Horner and Leon Berton.

The extensive plant of the Americus Oil Co., at Americus, Ga., has commenced operations for the season, and is now running on full time. It is said the plant will manufacture 500,000 to 700,000 gallons of oil this season, besides meal and other cottonseed products.

The Ennis Oil & Manufacturing Co., of Ennis, Texas, was chartered last week, with a capital stock of \$50,000. The incorporators are John Guitar, Jr., P. Freeman and J. H. Guitar. The company purposes to establish and operate cottonseed mills and manufacture fertilizers, etc.

A meeting of the cotton-oil men of South Carolina was held last week at Columbia. Among the prominent manufacturers present were W. T. Thompson, Union; A. C. Phelps, Sumter; A. C. McFall, Bennettsville; C. S. McCullough, Darlington; Philip Rich, St. Matthews; Thomas Taylor, Orangeburg; Fred Oliver, Charlotte; J. T. E. Thornhill, Charleston; George W. Baker and C. Fitzsimmons, Columbia. The primary object of the meeting was to take some action to reduce the excessive insurance which is charged on oil mills. The consensus of opinion of those present was in favor of establishing a mutual insurance association.

The market for cottonseed products in New Orleans is steady, with quotations unchanged. Receivers' prices are quoted as follows: Cottonseed, \$8 per ton (2000 pounds) delivered to the mills; cottonseed meal jobbing at depot, \$18.50 to \$18.75 per short ton, and \$20 to \$20.25 per long ton for export f. o. b.; cottonseed oil, 19½ to 20 cents per gallon for strictly prime crude; in bulk, 17 to 17½ cents, and 23½ cents for refined oil at wholesale or for shipment; oilcake, \$20 to \$20.25 per long ton f. o. b.; linters—A, 3¾ cents per pound; B, 3½ cents; C, 2½ to 3 cents; hulls delivered at 15 to 20 cents per 100 pounds, according to location of the mills.

## Working on Right Lines.

Mr. T. G. Bush, president and general manager of the Mobile & Birmingham Railroad Co., writes from Anniston, Ala., to the Manufacturers' Record as follows: "I read with much interest letters from President Spencer, Fink and others in your issue of the 3d inst. I think you are working on the right line, and your efforts will not only, in time, bear fruit, but I believe be appreciated by all fair-minded people in the South, who wish for its best welfare."

## The October "Southern States."

In view of the proposed trip of James Wilson, Secretary of Agriculture, to the South, the "Southern States" for October devotes considerable space to a character sketch of Mr. Wilson, and an article by Dr. Charles W. Dabney, Jr., describes at some length the work of the Department of Agriculture pertaining particularly to the South. Both articles are timely, and the second will be a revelation to those persons who have not closely followed the experiments and investigations relating to Southern products and the publications based thereon.

Another article of great interest and value deals with the farm methods of Thomas Jefferson Randolph. It is from the pen of an old-time Virginian, who writes from knowledge and experience.

The editorial pages and other departments of the "Southern States" are up to their standard of freshness and practical bearing upon the movements which are developing the South agriculturally.



## LUMBER.

[A complete record of new mills and building operations in the South will be found in the Construction Department.]

## LUMBER MARKET REVIEWS.

## Baltimore.

Office Manufacturers' Record,  
Baltimore, Md., September 23.

The situation in nearly every avenue of the local lumber industry is unchanged, and the market is quiet, with a fair offering of material. In yellow pine, air-dried stuff is quoted a shade lower for certain grades, and the demand is generally light. Planing mills, box factories and yardmen are only purchasing what they really need for present wants. The demand for kiln-dried North Carolina yellow pine is better, and considerable stock is being moved at present prices, which are generally firm at quotations. White pine shows an improvement in nearly all grades, and prices are firm and hardening. The local movement in hardwoods is improving, and there is a better demand for woods designed for finishing interiors. Inquiries from out of town are more numerous, and it is expected that a better movement along the list of hardwoods will occur shortly. The export business is still unsatisfactory, and the demand from foreign markets is light. Stocks of oak, poplar and common grades of walnut in Europe are excessive in most cases, and shippers are extremely cautious about making new business under present conditions.

## Charleston.

[From our own Correspondent.]  
Charleston, S. C., September 20.

The general lumber market is quiet, with a moderate volume of business reported. The mills at Georgetown and other points are generally running on full time, with shipments rather better than last month. Prices continue very low, with no immediate prospect of any marked advance, but holders are generally firm in their views, and confine themselves strictly to list figures. The market closed steady on Saturday, with quotations as follows: Merchantable lumber, \$14 to \$15 for city-sawed, \$12 to \$14 for railroad; square and sound, \$9 to \$13 for railroad, \$8 to \$11 for raft; dock timber, \$4.50 to \$6.50, and shipping, \$8.50 to \$10.50. Shingles are in good demand at \$5 to \$7 per thousand. Among the shipments last week were the following: Barkentine E. S. Powell for New York with 478,000 feet of lumber; steamer George W. Clyde for Boston with 71,464 feet. The steamer Comanche cleared for New York with 24,439 feet, and the Seminole with 9500 feet. Coastwise lumber rates are very low, with a fair offering of desirable tonnage. Rates to New York are \$4.38 to \$4.50; to Fall River, \$4.50; wet ties to Perth Amboy, N. J., 15 cents each, basis forty-six feet; switch ties, \$3.75, and lumber, \$4.50; dry railroad ties to New York, 11½ cents, basis thirty-six feet.

## Savannah.

[From our own Correspondent.]  
Savannah, Ga., September 20.

A moderate volume of business has characterized the lumber market at this port during the past week, and the demand for desirable grades of lumber is improving. With the advent of autumn there is likely to be greater activity in nearly all avenues of this industry, and reports from all milling sections are generally favorable. Orders are coming in more freely, and mills are, as a rule, operating on full time. At this and nearby Georgia ports shipments are keeping up well in both domestic and foreign. The

market on Saturday last closed steady, with quotations unchanged. Among the shipments last week the following vessels are reported: Schooner Harry B. Ritter for Philadelphia with 461,227 feet of pitch-pine lumber, by the Georgia Lumber Co., and barkentine Carrie L. Tyler for New York with 163,186 feet of crossties and 218,368 feet of lumber, by Cooney, Eckstein & Co. New York steamers cleared with 380,900 feet of lumber, and Baltimore steamers with 153,741 feet. Lumber and timber freights are steady and unchanged. Rates from this and nearby ports in Georgia are quoted at \$4 to \$4.50 for a range including Baltimore and Portland, Me. The following charters were reported in New York last week: A bark, 627 tons, from Brunswick to New York with lumber at \$4.56½, 40 M per day; schooner C. C. Wickham, 313 tons, from Philadelphia to Savannah with fish scrap at \$1.65, and back from St. Simons to New York with lumber at \$4.75; schooner C. C. Wehrum, 376 tons, from Savannah to New York with lumber at \$4.50, and schooner S. G. Hart, 505 tons, from Brunswick to Providence with lumber at \$4.87½. The schooner Agnes Manning was taken to load here with ties for New York at 15 cents.

## St. Louis.

[From our own Correspondent.]  
St. Louis, Mo., September 13.

Manufacturers here are now enjoying a full share of prosperity, and the assurance of bountiful crops is decidedly gratifying to business men generally. In nearly every avenue of business the volume of trade shows an increase, and within the past sixty days it is stated that there has been an increase of some 10 per cent. in the number of persons employed by manufacturers and others. In this great lumber centre conditions are in a much more encouraging condition than they have been since 1892, and there is every indication that the volume of business in all wood products will surpass that of the year mentioned. All woodworking concerns are now running on full time, and furniture and wagon factories report a great improvement in trade. Local car factories are doing a good business, and planing mills and sash and door factories are all busy, with plenty of orders on file. The yellow pine trade is in a very satisfactory shape, the demand being very decided, and the output of the various mills is being quickly absorbed, while prices are generally firm at the late advance. White pine is said to be in excellent condition, with a large and steady demand, increasing in volume from week to week. Manufacturers have advanced their prices, and the local market has quickly responded with a similar action, and it is stated that sales are now made at 25 cents to \$1 higher than they were sixty days ago. Receipts and shipments of hardwoods are holding up well, and everything in this line is active, with prices steady and firm. There is a good demand for oak, and prices are again advanced, while quartered white oak is firm at \$1 to \$2 higher than in July. Plain oak is in good demand, and heavy oak for car stock is moving freely. Cottonwood has also advanced in price, and local stocks of cottonwood box boards are well sold up, while there are small stocks at mills. All other woods are showing firmer values, and prices are expected to show a general advance at an early date all along the line.

## Beaumont.

[From our own Correspondent.]  
Beaumont, Texas, September 18.

Market conditions are practically the same this week as they have been for the past few weeks. A good volume of busi-

ness is reaching the coast mills from the Western States, where the bountiful crops and good prices of wheat are causing a strong demand for yard stock and dressed lumber.

Texas dealers are supplying but a limited amount of business, and the mills are not growing fat off of their trade. However, there is a good supply of orders at all the mills in this section, and the Texas and Louisiana manufacturers have the encouragement of a market which is and has been gaining strength at the same time that prices have been advancing.

There is a good tone in the export trade, though shipping is rather lighter than a short time ago.

A severe storm, which caused a wash-out on the road between here and Sabine Pass, has curtailed the amount of lumber being forwarded to that point at present.

Shipments by water to the Pass continue from Orange and Beaumont, but a part of the material which would otherwise have gone to Sabine by rail is now being shipped to Galveston to avoid delay.

Exporters report a fair prospect, as evidenced by the number of inquiries, and prices are tending to a higher point.

The Reliance Lumber Co. has secured a bill for shipment to New York which calls for 500,000 feet of timbers.

The order lists of our coast mills show that yellow pine has been gaining favor rapidly in Northern markets during the last few years, and as the shortage in white pine increases the demands for yellow pine have strengthened, until the shipments from Gulf ports to the Northeast have reached no inconsiderable volume.

Probably the most important trade event, and one which is expected will soon affect the lumber trade, was the completion on September 11, when the gold spike was driven a few miles east of Beaumont, of the Kansas City, Pittsburg & Gulf Railroad. Lumber manufacturers in this section will soon be placing their product on the markets of the Northwest via the "Pee Gee" route to Kansas City.

## Lumber Notes.

The Chicago Lumber & Coal Co., at Logansport, La., is running its planer day and night, and has orders enough to keep it running for sixty days.

Mr. Larry Maroney, a Colorado capitalist, is about to establish several large lumber mills along the line of the projected Mississippi River, Hamburg & Western Railroad, which will penetrate some valuable Arkansas timber lands.

The exports of wood products from Eagle Pass, Texas, for the month of August consisted of 503,000 feet of boards, deals and plank, 379,000 feet of joists and scantling, 119,000 shingles and \$2082 worth of other manufactures of wood.

The Pensacola Lumber Co. was incorporated last week at Pensacola, Fla., with a capital stock of \$120,000. The incorporators are J. H. Brent, London, England; F. R. Meade, W. H. Knowles, W. A. Blount and F. C. Brent, of Pensacola.

The mills of the Griffin Lumber Co. at Gadsden, Ala., were totally destroyed by fire on the 18th inst. Over 100,000 feet of lumber and a paint mill nearby were also destroyed. The loss is estimated at \$25,000, with only \$3000 insurance.

The Radford Industrial Works, of Radford, Va., was incorporated last week for the manufacture of wagons, axle-handles and spokes. The officers of the company

are E. F. Gill, president; William Ingles, vice-president, and John G. Osborne, secretary.

The steamship Ernesto cleared from Pensacola, Fla., last week with 1,680,000 superficial feet of sawn timber and 34,000 feet of lumber. During the month of August the shipments were as follows: Sawn timber, 11,908,000 superficial feet; hewn timber, 29,876 cubic feet; lumber, 9,216,000 superficial feet, and shingles 20,000.

C. W. Richardson & Co., of Spring Hill, Fla., have just purchased the entire plant and turpentine farm of J. T. Pope & Co., of Popeville, Fla., for the sum of \$15,000. Richardson & Co. have also bought new material for the erection of a large saw mill near Spring Hill. This company will also put in a barrel-stave machine and planer.

The axe-handle factory at Augusta, Ark., has been leased by C. A. Green, of Cape Girardeau, Mo., who will utilize it in the manufacture of hickory material for buggies. Later on he intends to add to it a bent-wood department. The section adjacent to Augusta abounds with woods suitable for his purposes, and a successful career is predicted for the new enterprise.

Mr. Greenleaf Johnson, the well-known wholesale lumber merchant, and senior member of the firm of Greenleaf Johnson & Son, of Baltimore, died on Tuesday last at his residence on Charles Street avenue. Mr. Johnson came to Baltimore in 1844, and was closely identified with various enterprises connected with the local lumber industry. His lumber interests in North Carolina were of an extensive character, he being president of the Cushie & Chowan Railroad & Lumber Co. and the owner of several milling plants and extensive tracts of timber.

The following shipments of wood products were reported from Jacksonville, Fla., last week: Brig H. B. Hussey for Portland, Me., with 431,000 feet of yellow-pine lumber; schooner Carrie E. Look for New York with 380,000 feet; schooner Mary Sanford for Bridgeton, Barbadoes, with 901,517 shingles, and schooner Mary F. Godfrey for Philadelphia with 340,000 feet of yellow-pine lumber. The Clyde steamer Oneida for Boston cleared with 200,000 feet of lumber, 1000 railroad ties and other cargo, and the New York steamers took out 850,000 feet of lumber, 9000 crossties and 8500 bundles of shingles.

## Improvements in Mississippi.

[Special Cor. Manufacturers' Record.]

Water Valley, Miss., September 21.

Our crop prospects are good, and our people are more hopeful since the downward tendency in prices of the leading staples of agriculture has ceased. Our small country machine shops are doing well. We are building in our town a \$25,000 county courthouse, with marble tile floors, pressed brick, marble trimmings, slate roof. The Illinois Central Railroad is extending its yard and shop facilities here. Water works and sewers have been completed in Water Valley, and are building in Grenada, Holly Springs, Oxford, Greenwood and many other Mississippi towns.

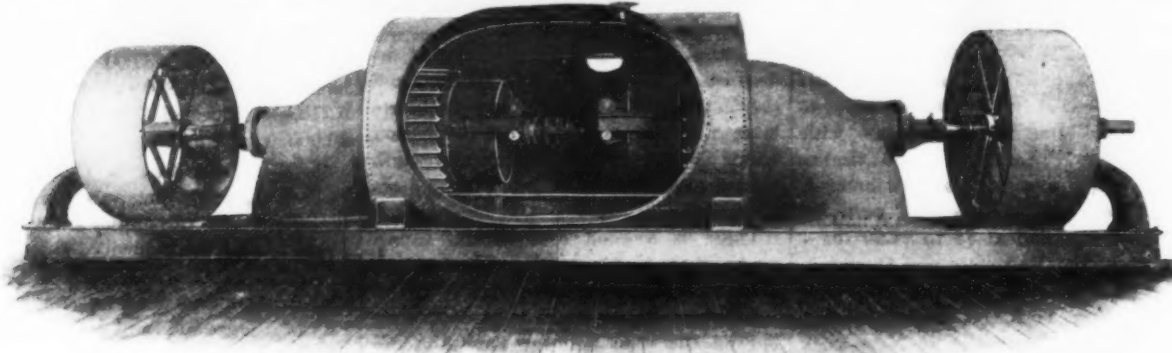
According to a dispatch from Norfolk, Va., S. S. Tanner, who, it is stated, represents a large number of grain exporting firms, has recently been in the city looking over the facilities offered for the shipment of grain and the railroad terminals. Mr. Tanner is president of the Illinois Grain Dealers' Association, which, it is understood, represents nearly \$100,000,000 capital and exports annually over 150,000,000 bushels of cereals.



## MECHANICAL.

## McCormick Turbines.

This photogravure represents a pair of 45-inch McCormick turbines, mounted



McCORMICK TURBINES.

on horizontal shaft, developing 500 horse-power, recently furnished the Augusta Factory, of Augusta, Ga., for operating that company's cotton mill. This outfit was built and erected by the S. Morgan Smith Co., hydraulic and mechanical engineers, of York, Pa. This equipment is a first-class one in every particular, and is a fair sample of the class of work this company is prepared to contract for.

## Planer and Matcher.

A new planing and matching machine, No. 37, has been devised and constructed by the Glen Cove Machine Co., of Brooklyn, N. Y., especially for the purpose of dressing all kinds of hardwood lumber in the most perfect and speedy manner. Band-sawed lumber is often difficult to dress on the ordinary machine, and the maple—which makes the most valuable flooring—is that which has the most crooked, twisted and knotty grain.

In this machine, which is illustrated herewith, the bottom head is placed first in the line, and dresses off the bottom surface of the board evenly. It then passes to the top cutterhead, by which it is brought to a size slightly full of the required thickness of the finished lumber. It then passes to the side or matcher-heads, being caught just before reaching them, and held securely on the

ing further that could mar the finish of the now completed work.

All the gears are cut and are broad-faced, so that the feed is very strong and steady. The cutterheads, which, with their journals, are of solid steel, have

of cast iron, which has been found to outwear cast steel.

When this pan is used for brickworks it usually has a slide in the bottom; for other purposes it is sometimes fitted with grates made of hardened steel bars; for

arm keyed to the vertical shaft, with heavy steel connecting links from the arm to the roll shafts. The gearing for driving the vertical shaft is usually six feet diameter, with a 15-inch pinion; suitable scrapers are also provided, when required, as for some purposes they are unnecessary.

These machines are made in diameter from five feet to twelve feet, the gearing being proportioned to the diameter of the pan. The pan shown in the illustration is of a seven-foot mill for grinding emery.

The convention in the interest of deep water, which is to be held at Galveston on October 5, promises to attract considerable attention in the West and Southwest. A delegation of sixty-five is expected from different points in Nebraska alone. The object of the convention is to promote deep-water ports on the Gulf of Mexico, especially Galveston.

A correspondent of the Manufacturers' Record at Anniston, Ala., states that preliminary arrangements have been made for the construction of a power plant at what is known as Muscle Shoals, near

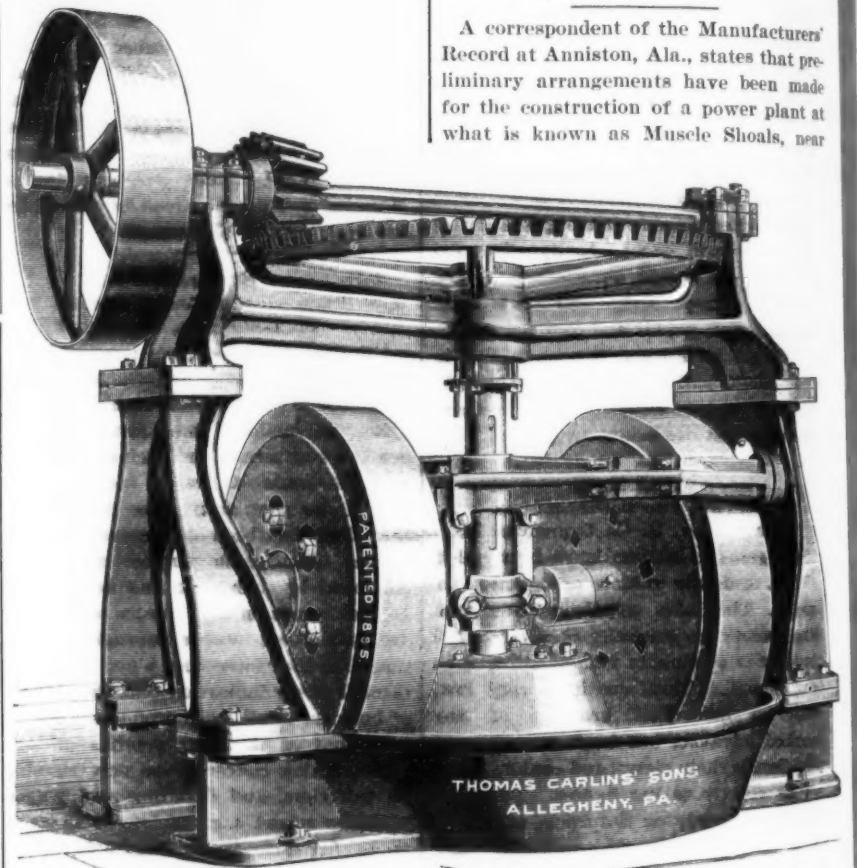
long and large bearings in yoked journal boxes. All the shafting is of steel.

Every part or piece of the machine is numbered, to facilitate the ordering of duplicates. Simplicity, durability and readiness of adjustment are all considered. Many valuable points not mentioned may be found described in the circulars of the company, which it will be glad to furnish. Address 50 Broadway, New York city, or 24 Clay street, Brooklyn, N. Y.

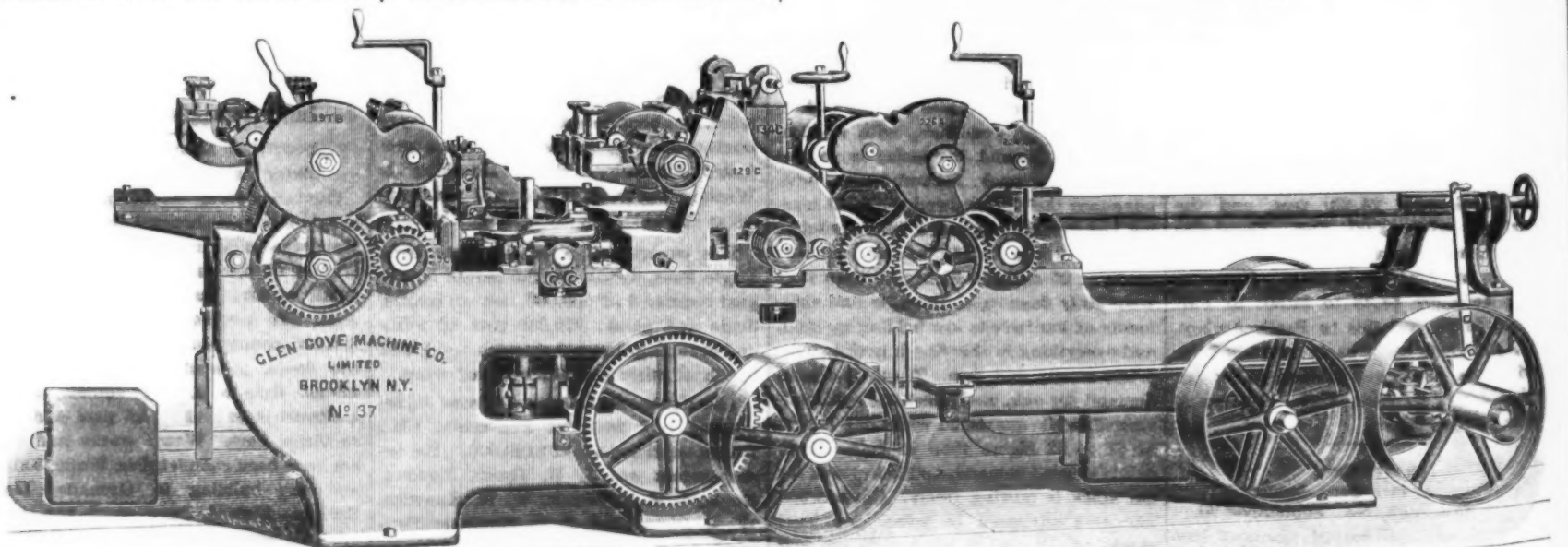
## A New Grinding Pan.

A new type of grinding pan, manufactured by Thomas Carlin's Sons, of Allegheny, Pa., is a stationary arc, with rim arranged to receive an iron frame forming the bearing for vertical and horizontal shafts, all adjustable. The pan proper has a removable bottom, which is held in place by the centre guard without the use of bolts in the grinding surface. These bolts are usually placed under the tread of the rolls, making a rough grinding surface, as well as allowing the material to leak through where water is used in grinding.

The rolls are fitted with patent tires, which consist of three pieces, the tire and two washer plates, one of which contains the bearings for the roll shaft. The washer plates have bevel edges, the inner face of the tires being made on a corresponding angle, the whole being held



A NEW GRINDING PAN.



No. 37 PLANING AND MATCHING MACHINE.

matcher-plate, by both top and side pressure shoes, until it has entirely passed these cutters. Next, by a final set of feed rolls, the board is carried to a fifth head, which makes a light finishing cut on its top surface, there being then nothing

firmly together by six bolts, passing through and through. The bearings are long, and are so made that the rolls can be turned side about to make them wear evenly. The material used in the tires and false bottom is special hard mixture

grinding emery and refuse from around brass furnaces the pan is usually made solid, so that the material can be ground in water and the lighter and refuse particles float off.

The rolls are revolved by the heavy

that town. Surveys have been made and stock subscriptions obtained. The company intends utilizing a waterfall on the Tennessee river at Muscle Shoals of eighty-four feet. It is claimed that 50,000 horse-power can be obtained.



# CONSTRUCTION DEPARTMENT.

**THE MANUFACTURERS' RECORD** seeks to verify every item reported in its Construction Department by a full investigation and complete correspondence with everyone interested. But it is often impossible to do this before the item must be printed, or else lose its value as news. In such cases the statements are always made as "rumored" or "reported," and not as positive items of news. If our readers will note these points they will see the necessity of the discrimination, and they will avoid accepting as a certainty matters that we explicitly state are "reports" or "rumors" only. We are always glad to have our attention called to any errors that may occur.

\* Means machinery, proposals or supplies are wanted, particulars of which will be found under head of "Machinery Wanted."

In correspondence relating to matters reported in this paper, it will be of advantage to all concerned if it is stated that the information was gained from the Manufacturers' Record.

It often occurs that the organization of a new company in any town is not known by the postmaster, and hence letters addressed to the company are returned marked "not known." The Manufacturers' Record reports the first organization of all companies, and our readers, in seeking to get into communication with them, should be very careful in deciding how to address them, and even then they must expect the return of some letters, because of the lack of knowledge on the part of postmasters of all new companies. Criticisms and complaints are invited, as they will the better enable us to guard against errors.

## ALABAMA.

Alabama—Coal Lands.—G. D. Fitzhugh, of Birmingham, whom we mentioned last week as saying the report of his selling coal lands to New York capitalists was erroneous, gives the facts which gave rise to the press dispatches regarding this deal. Mr. Fitzhugh has examined several thousand acres of coal lands in the northwestern part of Alabama for Henry Wellman, president of the Teutonia Savings Bank, of New Orleans, La., and the lands have been purchased by Mr. Wellman, and the titles to the property are now being perfected.

Birmingham—Water Works.—A project is on foot in which Northern capital is interested to form a company for the construction of water-works system to supply artesian water. Caldwell Bradshaw can be addressed for information.

Birmingham—Rolling Mills.—The Birmingham Rolling Mills has resumed operations after an idleness of three years. A full force of hands, 1500 in number, is now at work. The average output of the plant will be 120 tons of steel daily.

Birmingham—Electric-power Plant.—The Birmingham Traction Co. contemplates changing its railway to the electric system, and in the event of a definite decision will either erect its own electric power-house or rent power from some local company; G. M. Williams, general manager.\*

Birmingham—Crosstie Works.—A. Bidwell, of Kansas City, Mo., is now endeavoring to complete plans for the organization of a company to establish works in Birmingham for the manufacture of a patent metallic crosstie, patented by himself; company is incorporated under the laws of Kansas, with capital stock of \$150,000.

Cleburne County—Gold Mines.—The Klondike Gold Mining Co. has been organized to develop gold property in Cleburne county, and a shaft is now being sunk; capital stock placed at \$100,000; D. J. Sinclair, president; W. B. Merrill, vice-president; L. D. Phillips, secretary-treasurer; H. D. Watson, director, and J. B. Merrill, director; company organized at Edwarsville, Ala.

Edwarsville—Gold Mining.—The Peru-

vian Gold Mining Co. will erect a ten-stamp mill at its mines.

Edwarsville—Gold Mining.—Charles Schofield is developing the Bennett gold mines, near Edwarsville.

Kaolin—Kaolin Developments.—Major C. O. Godfrey, of Chattanooga, Tenn., is reported to be forming a company of New York and Philadelphia capitalists for the development of 1500 acres of kaolin lands, near Kaolin, which they have purchased.

New Decatur—Saw Mill.—W. W. Wheldon is rebuilding his saw mill at a cost of \$5000.

Piedmont—Cotton Mill.—The Coosa Yarn Co. will add new machinery to its mill, moving same from its branch in Philadelphia, Pa.

Sheffield—Electric Plant and Water-power Development.—A correspondent informs the Manufacturers' Record that indications point to the early inauguration of the proposed Muscle Shoals Electric Light & Power Co. The company has been making surveys and estimates and soliciting subscriptions, preparatory to commencing work on the enterprise. It is proposed to develop the water-power of Muscle Shoals, around which the government has completed the ship canal, and it is estimated that 50,000 horse-power could be obtained, which would be distributed by means of electricity to Sheffield, Florence and Decatur.

## ARKANSAS.

Augusta—Woodworking Factory.—C. A. Green, of Cape Girardeau, has leased the axe-handle factory at Augusta, and will utilize same in the manufacture of hickory material for buggies, such as shafts, axles, spokes, rims, etc., and later on he intends to add a bent-wood department.

Hamburg—Stave Factory.—Ed. Leschner, of St. Francis, Ark., and Milwaukee (Wis.) parties are perfecting plans for the establishment of stave factories in or near Hamburg.

Hamburg—Lumber Mills.—A dispatch from Hamburg states that Larry Maroney, of Colorado, will establish several large lumber mills along the line of the projected Mississippi River, Hamburg & Western Railroad.

Helena—Oil Mills.—The New South Oil Co. has been incorporated, with a capital stock of \$50,000, \$15,000 of which is paid in. E. C. Horner, president; E. S. Ready, Jas. B. Johnson, Leon Berton, W. A. Short and others are incorporators.

Pine—Woodworking Factory.—Incorporated: The McGaughey Hardwood Co., capital stock \$10,000, of which \$5000 is paid up, by R. D. McGaughey (president), C. H. Triplett and H. C. McGaughey.

Van Buren—Cotton Gin.—J. L. Edrington will erect a cotton gin; equipment has probably been purchased.

## FLORIDA.

High Springs—Water Works.—Reports say that an election may be called by the town authorities to vote on bond issuance for an electric-light plant. Address the town clerk for information.

Jacksonville—Electric-light Plant.—The city will appropriate \$30,000 for the proposed improvements and enlargements to the city electric-light plant. Address board of public works.

Jacksonville.—George W. Clark, George A. Clark and T. M. Burns have incorporated the Clark Co., with a capital of \$5000; Geo. W. Clark, treasurer.

Mayo—Turpentine Stills.—Simmons Bros., late of Arabi, Ga., are said to contemplate locating turpentine stills in Florida.

Pensacola—Mineral-water Company.—Chartered: The Sierra Madre Manette Mineral Water Co., with a capital of \$10,000, to prepare and sell a proprietary medicine known as Sierra Madre mineral water. The stockholders are: A. C. Blount, Jr., J. N. Andrews, J. S. Reese, J. J. Horton, R. W. Cary, Jr., L. Garza and K. J. Whitmire.

Popeville—Turpentine Farm, Saw Mill, etc.—C. W. Richardson & Co., of Spring Hill, Fla., have purchased the turpentine farm and plant of J. T. Pope & Co., at Popeville, which they will continue to operate; will also erect a saw mill near Spring Hill.

Spring Hill—Saw Mill.—C. W. Richardson & Co. will erect a saw and planing mill and add barrel-stave machinery.

St. Andrew's—Improvement Company, etc.—The St. Andrew's Horticultural & Improvement Co. has been incorporated, with capital of \$2500, to deal in and improve lands, etc.; W. A. Emmons, president; Robert Brown, vice-president, and R. E. Howard, secretary.

## GEORGIA.

Atlanta—Land Company.—W. A. Hemphill, M. Rich, A. G. Hobbs, B. M. Woolley and others have incorporated the Columbia Land Co. to deal in land and other properties, etc. Capital stock is placed at \$50,000.

Augusta—Box and Basket Factory.—S. J. Benjamin, manager of the Charleston Basket & Veneer Co., of Charleston, S. C., has chosen site for the erection of a factory for the manufacture of baskets and boxes of all kinds. It is stated that \$20,000 will be invested in the enterprise.

Augusta—Machine Works.—George R. Lombard, Charles Estes, P. G. Burham, P. J. Sullivan and others have incorporated the Newlin Steam Generating & Smoke Consuming Machine Manufacturing Co. to manufacture all mechanical devices and machinery of all kinds. The capital stock is \$1,000,000.

Augusta—Cotton Mill.—The Sutherland Manufacturing Co.'s intended improvements, recently noted, will consist of the addition of 4000 spindles. Order is said to have been placed.

Augusta—Grist and Meal Mills.—L. J. Miller, who leased the Georgia Railroad elevator recently, intends to install machinery for grists and meal of 3000 bushels capacity per day.

Buford—Dry-kiln.—The Buford Manufacturing Co. will put in dry-kiln outfit for drying its lumber.\*

Columbus—Carbonated Beverage Works. The Board of Trade is in correspondence with D. M. Conklin, of Peekskill, N. Y., relative to the establishment of works for the manufacture and bottling of carbonated beverages.

Dalton—Oil Mill.—E. P. Davis and others will build a cottonseed-oil mill.

Fitzgerald—Artesian Well.—The city will sink an artesian well and bids will be opened shortly; C. C. Goodnow, mayor.\*

Harmony Grove—Foundry.—The Hood Machine Works has been established and put in operation.

Harmony Grove—Oil Mill, Electric-light Plant, Water Works, etc.—The local company has completed its cottonseed-oil mill and fertilizer factory. Capital stock is \$40,000, and L. G. Hordman is president, and W. T. Thurmond, manager. The company has also charter for water-works and electric-light plant and may expend \$25,000 in building same.

Jackson—Cotton Mill.—The Pepperton Cotton Mills contemplates enlarging its mill.

Macon—Brewery Improvements.—The Acme Brewery Co. has decided definitely to make improvements to its brewery at a cost of about \$75,000; improvements will include a five-story building, equipped with machinery; A. Block, president.

Summerville—Water Works.—Guild & White, of Chattanooga, Tenn., have received contract at \$32,650 for the construction of the water works lately mentioned, work on which will shortly be commenced.

Valdosta—Mercantile.—B. S. Burton, R. P. Burton and J. M. Harvey have incorporated the Valdosta Grocery & Furniture Co., with capital of \$7000.

Valdosta—Wagon Factory, etc.—The T. G. Cranford Co. has been incorporated, capital stock \$10,000, for the purpose of dealing in live stock, dealing in and manufacturing wagons, etc., by T. G. Cranford, S. A. Standley and J. G. Cranford.

Villa Rica—Planing Mills and Gin.—Gaines & Fuller have commenced the rebuilding of their planing mills and cotton gin, which were destroyed by fire recently.

## KENTUCKY.

Louisville—Cooperage.—Schwarzwalder & Sons, of New York city, have leased a 10-acre site in Louisville, on which they will erect a cooperage to employ 400 men when completed.

Mt. Sterling—Water Works.—The city will offer at public sale on October 1 the franchise for a water-works system; Adam Baum, mayor.

Providence—Coal Mining.—The Providence

Coal Co. is adding a new battery of boilers to its equipment.

Shelbyville—Water-works Improvement.—The Shelbyville Water & Light Co. has appointed A. Rothchild and James Stewart, superintendent, a committee to visit filtering systems at water-works plants and select a filtering system for installation at Shelbyville.

## LOUISIANA.

Houma—Electric-light Plant.—The town authorities have definitely decided to erect an electric-light plant, and are now advertising for bids; R. L. Zelenka, chairman of committee.\*

New Orleans—Furniture Manufacturing, etc.—The North Louisiana Furniture Co., Limited, has been incorporated, with a capital stock of \$10,000, to deal in and manufacture furniture, etc.; J. G. Grant, president; Peter Jung, vice-president, and Jas. P. Welsh, secretary-treasurer.

New Orleans—Mining, etc.—The Mining, Prospecting, Trading & Transportation Co., Limited, has been incorporated, with capital stock of \$100,000, to operate as indicated in its title. Incorporators, W. G. Mayfield, Joseph E. Manning, A. Ledoux, F. D. Armstrong, H. C. Boyd, James Thorn and L. De Poorter.

New Orleans—Machine Works.—The Dixie Pea Harvester Co., Limited, has been incorporated, with capital stock of \$150,000, its purpose being to manufacture and introduce a pea harvester invented by J. L. Slaten and J. D. Goff, of Sparta, Tenn. J. D. Goff is president and general manager; J. L. Slaten, vice-president; Charles J. Lewis, secretary, and C. T. Miller, treasurer; office in the Hennen Building, New Orleans.

## MARYLAND.

Baltimore—Cement Works.—The Maryland Cement Co., Frank H. Sloan, president, will build at Sparrow's Point a plant for the manufacture of cement from furnace slag. Plans for buildings are now being prepared by Henry Brauns, and plant is to have daily capacity of 500 barrels.

Baltimore—Toy Factory.—The American Toy Co. has been incorporated by Albert P. Strobel, Charles W. Kennard, Jacob M. Reffel, Edgar M. Noel and Paul M. Burnett, with a capital stock of \$30,000, to manufacture toys.

Baltimore—Grate Works.—The Worthington National Grate Co. has been incorporated by Hermann Knollenberg, Albert W. Add, August Becky, Dall Worthington and Charles J. Welner, with a capital stock of \$50,000, to manufacture grates.

Baltimore—Tobacco Company.—The Sneering Tobacco Co. has been incorporated by William J. Sneeringer, Joseph E. Ballard, John M. Wheeler, J. Thomas Clark and Benjamin B. Snyder, Jr. The capital stock is \$30,000.

Baltimore—Sewerage System.—The sewerage commission, composed of Mendes Cohen, F. H. Hambleton and E. L. Bartlett, has submitted its report. A general system is suggested, favoring discharge of domestic sewage into Chesapeake bay and estimating cost of system at \$10,500,000, of which \$6,000,000 would be expended in from three to five years, and then the system could be opened to use in a partially-completed state. The report of the commission is accompanied by the report of the consulting engineers, Samuel M. Gray and Rudolph Hering. Address the mayor, from whom copies of reports may be possibly secured.

## MISSOURI.

Kansas City—Plaster and Cement Company.—Chartered: The Midland Plaster & Cement Co., with a capital stock of \$10,000, by P. A. English, F. S. Able, W. W. Rose and others.

Kansas City—Real Estate, etc., Company. The Andrews Real Estate & Building Co. has been incorporated by John Andrews, W. Tobener, David Phillips and others, with a capital stock of \$5000.

Orongo—Mining.—Incorporated: The Bunker Hill Mining Co., capital stock \$14,400, by James Means, W. B. Shackelford, C. W. Reed and others.

St. Louis—Jewelry Company.—The Wicke Jewelry Co. filed articles incorporation, with a capital stock of \$5000, all paid, Henry Wicke, John A. Fisher and Paul Schinke being the incorporators.

St. Louis—Packing Company.—The Mound City Packing Co., with a capital stock of



\$300,000, all paid, has been incorporated by James Quinlan, Gustave Kinckmeyer, Frederick Fischer, Charles L. Heitzberg, Geo. C. Heitzberg and William A. Heitzberg.

St. Louis—Bakery.—John Moestl's Vienna Bakery Co. has filed articles of incorporation, with a capital stock of \$5000, all paid; John Moestl, James H. Keep and Mary T. Moestl, incorporators.

St. Louis—Gas Works.—A bill has been introduced in the city council providing for the issuance of a franchise to a new gas company. M. M. Sweetman, late of Kansas City, is at the head of the new company.

St. Louis.—The St. Louis Seam Fastener Co., capital stock \$2000, has been incorporated by Wallace C. Butler, Jr., W. C. Witherspoon and Gilbert Hay.

St. Louis—Mills.—Incorporated: The A. H. Clark Milling Co., capital stock \$2000, by Joseph D. Montague, Marie R. Clark and A. H. Clark.

St. Louis—Lead Company.—Chartered: The St. Clair Lead Co., capital stock \$100,000, by R. J. Dyas, E. R. Hoyt, W. S. Swingley and others.

Wentworth—Zinc Lands.—Charles T. Hines, of Wentworth, Mo., and associates have purchased zinc lands in Newton county and intend to inaugurate extensive developments.

#### NORTH CAROLINA.

Barnardsville—Flour Mill.—The erection of a flour mill to be run by water-power is contemplated. Address Walter Hurst, Barnardsville, N. C.\*

Concord—Cotton-mill Supply Works.—The Odell Manufacturing Co. has ordered an equipment for roller-covering works to supply its own mill and others.

Concord—Telephone System.—The Concord Telephone Co. has been incorporated, with capital of \$1500, by N. F. Yorke, L. D. Coltrane, W. H. Lilly, Jno. P. Allison and W. C. Houston. Franchise for system has been obtained from the town commissioners and will be established at once.

Dunn—Telephone Line.—A telephone line will be constructed to connect Dunn, Sillington and Clinton, a total distance of about fifty miles. Dr. J. C. Goodwin, Dunn, N. C., can be addressed for information.\*

Mayodan—Cotton Mill.—The Mayo Mills is erecting an opening-room addition to its plant.

Monroe—Water Works.—Regarding proposed water works, the mayor informs the Manufacturers' Record that the intention is to first secure a sufficient water supply, and to do this artesian wells will be drilled. When this is done further steps may be taken for the construction of water works; James G. Covington, mayor.

North Wilkesboro—Woolen Mill.—G. W. Hinshaw, of Winston, N. C., and W. F. Trogdon, of Greensboro, N. C., are interested in a movement for the establishment of a woolen factory. Northern parties are said to be interested also.

Statesville—Water Works.—The city will now arrange for the early commencement of work on its proposed water works, for which \$52,000 in bonds have been authorized and voted. The system is to include dam and reservoir at source of supply, standpipe 110x15 feet, about nine and a-half miles pipe, two 750,000-gallon pumps, seventy hydrants, etc. Sewerage will include six to eight miles of pipe, not yet definitely determined upon. Bids for all or a part of the work will soon be advertised for; L. Harrill, mayor.\*

Winston—Tobacco Factory.—The Brown Bros. Co. has purchased site for its proposed addition to its tobacco and cigarette factories; new addition will be 60x100 feet, five stories high.

#### SOUTH CAROLINA.

Bennettsville—Woodworking Factory.—J. C. Dudley intends to add considerable new machinery to his woodworking plant, such as rim and hub machinery, handle lathes, etc.\*

Bishopville—Real Estate.—A commission for a charter has been issued to the Grange Real Estate Investment Co., to be capitalized at \$3000. The incorporators are L. L. Baker, W. A. James and C. J. Rollins.

Greenville—Cotton Mill.—F. W. Poe, president of the F. W. Poe Manufacturing Co., advises the Manufacturers' Record that work has begun on an extension to the company's mill of 130 feet, which will be 104 feet wide and four stories high. This additional building will give room for an enlargement to 25,000 spindles and 750 looms, but the company will only put in 304 looms and the temporary equipment will be 10,752 spindles and 608 looms. The capital stock will remain at \$250,000. It is expected that

the new machinery will be in full operation by January next.

Greer Depot—Cotton Mill.—The Victor Manufacturing Co. contemplates the issuance of \$40,000 in stock (additional) and the expenditure of said sum on 5000 spindles, etc.; Lewis W. Parker, president, Greenville, S. C.

Marion—Cotton Mill.—The Ashby Cotton Mills (2750 spindles) is reported as to double its equipment, put in warping machinery, etc. A. M. Price, Lincolnton, N. C., is owner.\*

Newberry—Coffin Factory.—The Carolina Manufacturing Co. has commenced the erection of an addition to its plant, to be a coffin factory 55x75 feet, two stories high, equipped with machinery.

Orangeburg—Cotton Mill.—The Enterprise Cotton Mills will increase its capital stock from \$60,000 to \$100,000 and expend the \$40,000 so acquired on an equipment of machinery. This mill is now in course of establishment.

Spartanburg—Flour Mill.—J. H. McMillan is making improvements to his flour mill.

Spartanburg—Sewerage System.—The city has voted in favor of the issuance of bonds for the construction of the proposed sewerage system. Owing to some question of the legality of the decision the city attorney will make a test. Address the mayor for information.

Union—Water Works and Electric-light Plant.—The city has completed arrangements for the construction of its electric-light and water plants, and is now advertising for bids. Plans and specifications are now in the hands of N. Wilson Davis, engineer.\*

Walterboro—Planing Mills.—B. H. Cuttino has commenced to rebuild the Walterboro planing mills and dry-kilns which were recently destroyed by fire.

#### TENNESSEE.

Bonair—Coal Mining.—The Bonair Coal & Coke Co. is making another coal entry (No. 6), and in a month will commence to ship 1000 tons of coal per day.

Chattanooga—Pottery.—The Chattanooga Pottery Co. has been incorporated by Theodore Richmond, C. L. Krager, H. A. Chambers, A. S. Glover and others for the purpose of operating the pottery lately reported as to be erected at Fort Negley.

Chattanooga—Cotton Mill.—The South Chattanooga Business League is in communication with Phillips & Pearce, who propose the establishment of a cotton mill. It is proposed to form a stock company, with \$100,000 capital, and secure the Vance & Kirby mill, improve and operate it.

Dayton—Car Shops.—The Dayton Coal & Iron Co., Limited, writes the Manufacturers' Record that there is no truth in the report recently current that it contemplated the erection of car shops.

Dayton—Furnace to Resume.—The Dayton Coal, Iron & Railway Co. is preparing to blow in its No. 2 furnace.

Lenoir City—Lumber Mills.—The Patterson Manufacturing Co. will at once re-establish its lumber mills which were recently burned. Buildings have been leased and the latest improved machinery has been ordered; will resume operations in sixty days.

Nashville—Telephone Company.—Chartered: The Meigs County Telephone Co., capital stock \$500.

Springfield—Electric-light Plant.—The formation of a company to build an electric-light plant is proposed, and among those interested are W. A. Powell, H. T. Stratton, Wm. McMurray, E. S. Eckles.

Tullahoma—Electric-light and Water Works.—George W. Davidson is in correspondence with Louisville (Ky.) parties relative to the establishment of water works and electric-light plant.

#### TEXAS.

Austin—Manufacturing Company.—The Texas Telurian & Manufacturing Co. has been incorporated, with a capital stock of \$10,000, by W. H. Thaxton, N. J. McArthur and H. M. Little.

Austin—Ice Factory.—The Austin City Ice Co. expects to increase its plant with new tanks and buildings; will also put in soon a 100-horse-power boiler and 75-horse-power three-phase motor; H. B. Beck, business manager.

Burnet—Granite Quarries.—Ed. Shannon will form a company to open granite quarries.

Dallas—Cattle Company.—Incorporated: The Austin Sunset Cattle Co., capital stock \$100,000, to buy, sell and raise live stock;

incorporators, J. W. Fields, Ross L. Clark, of Dallas, and B. F. Hancock, of Mexia.

El Paso—Mercantile.—Incorporated: The Emerson & Berrien Furniture Co., capital stock \$10,000, by J. W. Emerson, E. Berrien and Robert Junnonville.

Houston—Mercantile.—Chartered: The Houston Notion Co., capital stock \$20,000, by J. L. Souza, Mrs. H. Jacobs, J. B. Cochran and Cora Jacobs.

Richmond—Electric-light Plant.—Bassett & Winston are reported as to install an electric-light plant.

Texas—Coal Mining, etc.—The White Oaks Coal Co. has been incorporated at Santa Fe, N. M., by W. R. Berghols, Felix Gottschalk, Cornelius Fliske and Julius M. Ferguson, of New Mexico; James M. Bell, of El Paso, Texas; Wm. Watson, Peter Nichols and M. M. White, of White Oaks, N. M. The company proposes the development of coal properties on the line of the proposed El Paso & White Oaks Railroad. The capital stock is placed at \$2,600,000, of which 3 per cent. has been paid to the treasurer of the company, James M. Bell, El Paso, Texas, who can be addressed for further particulars.

Victoria—Channel and Dock Company.—Chartered: The Pass Caballo Channel & Dock Co.; capital stock \$600,000. The domicile of this corporation shall be at O'Connorport, on Alligator Head, in Calhoun county, but the directors' meetings shall be held at Victoria; purpose, the constructing, owning and operating deep-water channels from the waters of the Gulf of Mexico along and across any of the bays on the coast of Texas to the mainland, and the construction, owning and operating of docks on the coast of Texas; incorporators, Thomas M. O'Connor, Frederick C. Proctor, John J. Welder, J. D. Mitchell and John P. Nelson. For information address Fredk. C. Proctor, Victoria, Texas.

Webster—Creamery.—John Newman, of Iowa, has purchased 240 acres of land near Webster, and will erect a large creamery. G. S. Johnson is said to be at Houston, Texas, representing Mr. Newman, and that a Galveston architect is preparing plans for the buildings for the enterprise.

#### VIRGINIA.

Big Stone Gap—Saw Mills, etc.—M. C. McCorkle, of Bristol, Va., has purchased a tract of timber land near Big Stone Gap, and will erect saw mills on same.

Hiltons—Saw Mill.—W. J. Lunsford will build a saw mill.\*

Lynchburg—Barytes Mill.—R. S. Terry has purchased the Piedmont Drug Mill Co.'s property, and will, it is said, convert same into a barytes mill.

Norfolk—Celluloid Novelty Works.—Messrs. Brosnan & Dunn, of Springfield, Mass., will establish at Lambert's Point a plant for the manufacture of celluloid novelties, fancy paper and envelope boxes, etc. A local company, to be known as the Brosnan & Young Co., will be organized and chartered at once for the completion and operation of the factory; capital stock to be about \$30,000. A new building will be erected at a cost of \$4500 and the plant will cost about \$20,000. V. P. Snow, of Norfolk, is said to have induced the location of this enterprise.

Norfolk—Bleachery.—V. P. Snow is endeavoring to induce the location of a bleachery by Mr. Dunn, of Brosnan & Dunn, of Springfield, Mass. (mentioned in above item).

Petersburg—Clothing Factory, etc.—The Talley Dry Goods Co. has been incorporated, with C. H. Talley, president; W. H. Talley, secretary, and C. A. Slaughter, E. D. Atkins and others, directors, for the manufacture of clothing and to conduct a general dry-goods establishment; capital stock \$5000.

Radford—Woodworking Factory.—The Radford Industrial Works has been incorporated for the manufacture of wagons, axehandles and spokes, with E. F. Gill, president; William Ingles, vice-president, and John G. Osborne, secretary.

Richmond—Fertilizer Factory, etc.—The Richmond Guano Co. will increase its capital stock to \$300,000 and at once make extensive additions to its plant, as noted recently. A new factory will be erected for chemicals, fertilizers and acid phosphates, equipped with the latest improved machinery of all kinds necessary. The company will incorporate with R. H. Johnson, president; W. S. Forbes, vice-president; J. A. Moncre, secretary-treasurer, and with J. P. George and J. W. Harrison, will be the directors.

Richmond—Telephone Plant.—The Mason-Maxwell Telephone Co. will expend \$25,000 in improving and extending its plant and equipment.

#### WEST VIRGINIA.

Piedmont—Pulp Mill.—E. C. Henderson, of Cumberland, Md., has contract to erect at Piedmont a building which will be equipped for manufacturing pulp for postal-card factory.

Sistersville—Water Works.—The city will soon let contract for the construction of its proposed water works, plans and specifications for which are now on file; Geo. M. Gardiner, mayor.\*

#### BURNED.

Charleston, S. C.—The Germania Brewery damaged to the extent of \$5000.

Clinton, Ky.—Three brick buildings of Thos. Emerson; loss \$17,000. Mercantile building of E. O. Reid & Son; loss \$15,000, etc.

Columbia, Miss.—Cotton gin of McNiece & Bass.

Gadsden, Ala.—Lumber mills of Griffin Lumber Co.; loss \$25,000; also Gadsden Paint Mills; loss \$6000.

Hagerstown, Md.—Grain elevator of Boyer & Heard; loss \$25,000.

Hancock, Md.—Round Top Cement Mills of Robert Bridges and Charles W. Henderson; loss \$10,000.

Jackson, La.—Cotton gin of Geo. J. Woodside; loss \$1000.

Keyser, W. Va.—The Piedmont Metallic Paint Co.'s mills; loss \$30,000.

McMinnville, Tenn.—Saw mill of P. A. Hoodenpyl.

Norfolk, Va.—Fertilizer factory of D. W. Holmes; loss \$2000.

St. Louis, Mo.—The Merchants' Steam Laundry; loss to machinery about \$10,000.

Sullivan, Mo.—Saw mill of J. E. Baugher; loss \$25,000, including lumber.

Walterboro, S. C.—Horseshoe Phosphate Works; damaged to the extent of \$5000.

#### BUILDING NOTES.

Abbeville, Ga.—Courthouse.—Plans by Andrew J. Bryan & Co., of Atlanta, have been accepted for the proposed new courthouse for Abbeville. Contract for erection of the structure will be awarded November 5.

Apalachicola, Fla.—Armory.—The county commissioners intend building an armory for the local military company, to be 60x100 feet in size and two stories high, of brick, to cost about \$10,000. Plans are wanted. Address R. M. Yent, chairman of committee.

Augusta, Ga.—Hotel.—There is some talk of the erection of a 70-room hotel at Monte Sano, and it is said that J. C. Turner will prepare plans for it.

Baltimore, Md.—Dwellings.—Permit issued to S. D. Hutt for eleven two-story dwellings.

Baltimore, Md.—Theatre and Office Building.—It is stated that Goodrich & Goodrich (offices in Fidelity Building) are making estimates for a theatre and office building for a Colonel Butler. It is said that the building will be about 90x220 feet in dimensions, seven stories high, of steel, stone and faced brick, finished in marble, with roof gardens, steam heat, electricity, etc.

Charlotte, N. C.—Dwelling.—Heriot Clarkson will erect a dwelling.

Chattanooga, Tenn.—Dwellings.—Taylor & Crute have permit for erection of three frame dwellings to cost \$5000.

China Grove, N. C.—Warehouse.—The Patterson Manufacturing Co. will build a warehouse.

Dalton, Ga.—Jail.—The county of Whitfield will build a new jail. Address the county clerk.

Dalton, Ga.—Jail.—A tax having been levied for the erection of a jail, the county commissioners will arrange for the erection of the building next spring; D. Sholl, clerk to commissioners.

Gainesville, Ga.—Hotel.—H. H. Dean and H. N. O'Neill (address care of Arlington Hotel) have plans on foot for the erection of a large hotel building.

Lexington, Ky.—Dwelling.—Mrs. J. C. Headley will erect a \$5000 brick dwelling.

Louisville, Ky.—Church.—Building permit issued to the Reform Church Association for a brick church building at Tenth and Chestnut streets, to cost \$10,000.

Madisonville, Ky.—Bank Building.—The Morton Bank will erect a bank building, plans and specifications for which have been accepted; George Stewart, contractor.

Mannington, W. Va.—Courthouse.—Endeavors are being made to raise \$80,000 for the erection of a courthouse by the citi-



mens. The mayor can probably give information.

**Murfreesboro, Tenn.—Store Buildings.**—A. G. Tompkins will erect a block of store buildings.

**New Orleans, La.—Warehouse.**—The Aniston Lime & Stone Co. has applied for permit to erect a warehouse.

**Norfolk, Va.—Office Building.**—The Southern Railway Co. has let contract to Wilson & Seay for the erection of 42x56-foot two-story office building at Pinner's Point.

**Port Arthur, Texas.—Warehouse.**—It is said that arrangements will be made at once for the erection of a grain warehouse to cost \$20,000. Robert Gillham, general manager Kansas City, Pittsburg & Gulf Railway, Kansas City, Mo., can be addressed for information.

**Richmond, Va.—Theatre.**—It is reported that P. T. Murphy will erect a \$30,000 theatre building.

**Stevenson, Md.—Hotel, etc.**—L. Appleton Wilson, of Baltimore (office in Central Savings Bank Building) is preparing plans and specifications for the hotel and cottages proposed to be erected in the Green Spring valley, near Stevenson, by company. About \$50,000 or \$75,000 will be expended. It is said, on this hotel and cottages. Edw. Stabler, president Guardian Trust Co., Baltimore, is interested in the improvements.

**St. Louis, Mo.—Mercantile Building.**—Eames & Young, lately reported as preparing plans for a large mercantile building to be erected by Festus J. Wade and others, informs the Manufacturers' Record that contract for the erection of same will be let in about thirty days. The material will be cut-stone, brick, terra-cotta, for exterior walls, with probably fire-proof interior construction throughout. The cost of the building will be about \$250,000. Correspondence should be addressed to the above-mentioned firm at the Columbia Building, Eighth and Locust streets, St. Louis, Mo.

**Victoria, Texas.—Wharves, Storehouses, etc.**—The Pass Cabello Channel & Dock Co., incorporated with \$600,000 capital stock, as reported in the manufacturing department, intends to build wharves, storehouses, etc., in order to induce some railroad to extend lines to the deep water at Alligator Head, in Calhoun county. Address Frederick C. Proctor, Victoria, Texas.

**Washington, D. C.—Pavilion Buildings.**—Sealed proposals will be opened September 30 for the erection of pavilion buildings at the Government Insane Asylum grounds. For further particulars address C. N. Bliss, Secretary Interior.

**Washington, D. C.—Dwellings, etc.**—Thos. M. Halslip has prepared plans for five houses, two stories, modern conveniences, furnace heat, etc.; cost to be \$13,000. A. Goener has drawn plans for three-story dwelling, 19x57 feet, to have tiled baths, vestibules, cabinet mantels, electric fixtures, hot-water heat, etc.; cost to be \$5,000. Mrs. Hattie Coombs will build a residence. Mrs. K. L. Osborne will build three eight-room dwellings, to cost \$4,500 each. William McKinley will build a dwelling after plans by B. S. Simmons, to have two stories, press-brick front, and be 21x48 feet in size. R. B. Blundon will erect two two-story frame dwellings, to cost \$3,500. H. V. Minnix will erect two brick dwellings, each three stories high, to have electric appliances, sanitary plumbing, etc.; cost to be \$7,500. B. F. Meyers has drawn plans for two three-story dwellings.

## RAILROAD CONSTRUCTION.

### Railways.

**Baltimore, Md.—The Walbrook & Gwynn's Falls Railroad Co.** has been incorporated, with \$50,000 capital, by H. Clay Tunis, R. M. Ridgely, Morris Laupheimer and others, to construct a railroad from a point in the western suburbs to Walbrook.

**Belington, W. Va.—The Middle Fork Railroad Co.** has been incorporated for the purpose of building a line from the mouth of the Middle Fork river to the mouth of what is known as the Cassity Fork, in Randolph county. The capital is \$200,000. The incorporators include Charles A. Blatchley and A. E. Messier, of Philadelphia; Floyd Teter, of Belington, W. Va., and Henry G. Blatchley, of Grafton, W. Va.

**Birmingham, Ala.—It is reported that the Birmingham Railroad & Electric Co., of which J. B. McClary is manager, will control the Birmingham, Powderly & Bessemer road, which was purchased for the use of electric motors. The line is about twelve miles long.**

**Birmingham, Ala.—G. M. Williams, manager of the Birmingham Traction Co., in-**

forms the Manufacturers' Record that this company contemplates changing the East Birmingham Dummy line, which it has bought, for the use of electric motors. The question of another power-house is also under consideration.

**Blacksburg, S. C.—It is stated that as a result of the recent examination of the proposed route of the Ohio River & Charleston Railroad, that the work of connecting the two sections of this line in Tennessee and North Carolina will begin in the near future. Samuel Hunt, president of the company; S. M. Felton, who is supposed to represent a Northern syndicate, and A. N. Molesworth, chief engineer of the company, have been making examinations.**

**Call, Texas.—Vice-President George Adams, of the Orange & Pine Belt Railroad Co., advises the Manufacturers' Record that the company expects to build ten miles of this road by December 1. Local parties are interested in it, including D. Call, president of the Cow Creek Tram Co., and George W. Smith. The total length of the line is about seventy miles.**

**Carrollton, Mo.—The Carrollton Electric Railroad Co. has been incorporated, with \$10,000 capital, by F. V. Crouch, J. L. Miners, F. L. O'Leary and others.**

**Centre, Texas.—A correspondent of the Manufacturers' Record states that arrangements are being made to build a proposed railroad between Centre and Tannah, a distance of thirteen miles, in the near future.**

**Concord, N. C.—It is reported that Centre township has voted in favor of a subscription of \$10,000 of capital stock for the proposed railroad between Centre and Aberdeen, N. C., which is being promoted by the Moore County & Western Railroad Co.**

**Dublin, Ga.—The business men of Dublin have appointed a committee to raise a bonus of \$10,000 to insure the building of the Augusta Southwestern Railroad system through Dublin. James U. Jackson, of Augusta, Ga., is one of the promoters of the enterprise.**

**El Paso, Texas.—It is reported that the building of the White Oaks Railroad has been revived, and that C. B. Eddy, one of the principal promoters of the line, may let contracts for a section of the line in the near future.**

**El Paso, Texas.—The El Paso & White Oaks Railroad Co. has been chartered, with \$400,000 capital, to build a line from El Paso to a point on the southern boundary of New Mexico. Felix Gottschalk and Jas. M. Ferguson, of New York; David Blackslly, of Hamilton, Ontario; James G. Bell and Charles F. Slack, of El Paso, are among those interested in the company. [It is understood that this company is independent of the one in which C. B. Eddy is interested.—Ed.]**

**Fairfield, Texas.—It is reported that the business men of Fairfield have arranged to make a survey for a line to be constructed between Fairfield and Oakwood, on the International & Great Northern Railroad system. The line will be about twenty miles long. W. B. Moses, of Fairfield, is one of the parties interested.**

**Fort Smith, Ark.—It is reported that the St. Louis & San Francisco Railroad Co. has let the contract for a branch in Newton county, Arkansas, to the Cherryvale Construction Co., of Cherryvale, Kan. The branch will be about fifty miles long.**

**Galveston, Texas.—It is reported that about four miles of the Galveston, Brazos & Southwestern Railroad have been graded and that contracts have been let by L. P. Featherstone, general manager, for sixteen and one-half miles of the line. This road is proposed to San Antonio, Texas.**

**Heartpine, Ga.—It is reported that the Southern Georgia Railroad Co. is planning an extension of this line from Heartpine to Nashville, Ga., a distance of sixteen miles. J. W. Oglesby, at Heartpine, is president of the company.**

**Houston, Texas.—It is reported that the Houston & Texas Central Railroad Co. has determined to build a branch line to Dublin and perhaps Thurber, Texas, to reach coal deposits in that locality. J. A. Quinlan, at Houston, is general manager of the company.**

**Hutton, Md.—The Preston Railroad Co. has completed nine miles of its line between Hutton and Aurora, W. Va. Mr. R. P. Crellin, one of the directors of the company, advises the Manufacturers' Record that it is to give transportation facilities for coal and timber in that locality and that the entire length of the road is twelve miles. It is a feeder of the Baltimore & Ohio road. Mr. Crellin's address is White Haven, Pa.**

**Jackson, Miss.—It is reported that the**

business men of Jackson have become interested in the railroad line to be built from Florence, Ala., to New Madrid, Mo., and Dyersburg, Tenn. It is reported that a branch may be built from Clifton to Jackson.

**Jasper, Texas.—Superintendent E. I. Kelle, of the Jasper Southern road, advises the Manufacturers' Record that all the rails for this line have been purchased, also a portion of the rolling stock, and trains will be in operation over the line between Jasper and Beaumont by November 1.**

**Lumberton, Miss.—The Manufacturers' Record is informed that the railroad now being constructed between a connection with the Gulf & Ship Island road and Lumberton may be extended further west. A survey has been commenced for the extension, which may terminate at Natchez. The Gulf & Ship Island Railroad Co., of which S. S. Bullis is general manager, is interested in the line being built to Lumberton.**

**Morganton, N. C.—The company promoting the proposed railroad line between Elizabethton and Shelby, Tenn., by the way of Morganton, has the following officers: W. E. Walton, president, and L. T. Pearson, secretary and treasurer. The principal offices are at Morganton. An election will be held on November 9 in Burke county to decide the question of issuing \$20,000 in bonds in aid of the railroad.**

**Morristown, Tenn.—It is reported that the Old Dominion & Carolina Railroad Co., which is promoting a line between Petersburg, Va., and Ridgeway, N. C., has been examining the Morristown & Cumberland Gap Railroad, with the view of building a connection to it. Peter Arlund, of Petersburg, Va., is one of the promoters of the Old Dominion & Carolina road.**

**Orange, Texas.—A correspondent of the Manufacturers' Record writes that over \$30,000 has already been subscribed in stock subscriptions for the line proposed to be built between Orange and a connection with the Jasper Southern Railroad. This line will be about fifty miles long. John T. Hurt, of Orange, is one of the promoters of the line.**

**Staunton, Va.—The city council has endorsed the report of the citizens' committee favoring a subscription of \$50,000 towards the proposed electric road from Staunton to Monterey. R. D. Apperson, general manager of the Staunton Street Railway Co., is one of the promoters of the enterprise.**

**Sweetwater, Texas.—Construction has begun upon the Colorado Valley Railroad line, which is to be sixty miles in length. The road will extend from San Angelo, Texas, and connect with the Santa Fe and the Texas & Pacific systems. Irvin Wheatcroft, at Sweetwater, is general manager of the company.**

**Tullahoma, Tenn.—It is reported that Louisville capitalists are desirous of constructing a railroad line from Tullahoma to Lynchburg, Tenn. Hon. G. W. Davidson, of Tullahoma, has been in communication with them.**

**Valdosta, Ga.—J. M. Wilkinson, president of the Valdosta Southern Railroad Co., advises the Manufacturers' Record that the extension to Madison, Fla., is to be completed by June 1. The extension will be about twenty miles long, and will be laid with 40-pound steel rails. Eight miles of the right of way remain to be cleared and twelve miles to be graded.**

**Velasco, Texas.—L. R. Bryan, one of the promoters of the Galveston, Brazos & Southwestern Railroad Co., advises the Manufacturers' Record that the promoters of this line have made a proposition to the people of Brazoria and Matagorda counties to build the line between the Brazos and Colorado rivers, a distance of forty miles, if the people will contribute a certain amount of bonus per mile. The bonus, it is stated, is now being raised, and there is a possibility of beginning construction work about October 1.**

**Washington, D. C.—The Baltimore & Washington Transit Co., which has completed an electric road to Sligo, in Montgomery county, Md., may extend its line to Sandy Spring, in the same county. The extension would be about twelve miles long. The committee is now obtaining subscriptions to build the road to Sandy Spring. N. Winslow Williams, Fidelity Building, Baltimore, is president of the company.**

**Washington, D. C.—The Washington, St. Mary's Bay & Point Lookout Railroad Co. has been incorporated for the purpose of constructing a line between Washington and Point Lookout. It is reported that a deed of trust has been given to the Security Trust Life Insurance Co., of Philadelphia, Pa., to secure an issue of \$1,250,000 of 5 per cent.**

bonds to finance the building of the road. The right of way is to be through St. Mary's and Prince George's counties, extending from Washington to Point Lookout, on the Chesapeake bay, by the way of Forestville and Cheltenham. Alfred R. Linderman, 1001 Chestnut street, Philadelphia, is president, and H. L. Montgomery, treasurer of the company. The distance is seventy miles.

### Street Railways.

**Baltimore, Md.—The Belair road division of the Central Railway Co. has been completed and is now in operation. It is about four miles in length.**

**Baltimore, Md.—The Baltimore City Passenger Railway Co. has obtained permission to lay tracks in the eastern portion of the city to connect its line with the Baltimore, Middle River & Sparrow's Point Railway. Construction work has begun. Walter S. Franklin is president of the former company.**

## Machinery, Proposals and Supplies Wanted.

**Manufacturers and others in need of machinery of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery needed we will make their wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. The MANUFACTURERS' RECORD has received during the week the following particulars as to machinery that is wanted.**

**Boiler.—The National Fertilizer Co., Nashville, Tenn., wants to buy a second-hand boiler of forty to sixty horse-power.**

**Boiler.—H. C. Chapman, Florence, S. C., is in the market for a 40-horse-power second-hand return tubular boiler.**

**Boilers and Engines.—H. C. Chapman, Florence, S. C., wants prices from manufacturers on boilers and engines.**

**Bridge.—Proposals will be opened September 27 for the construction of a steel bridge (wood floor) near Roanoke, Va.; structure to be 110 feet long centre to centre, roadway sixteen feet wide. Plans and specifications now on file in office of city engineer. Also bids for constructing masonry abutments will be opened. Address clerk to Roanoke county commissioners, Roanoke, Va.**

**Broom Machinery.—N. M. Brady, Box 144, Radford, Va., wants bids on broom machinery, both hand and power.**

**Clinometer Attachment for Carpenter's Square.—Wanted—Estimates of price for manufacturing clinometer attachment composed of two glass discs, marked with 360° of a circle and encased in metal box. Address J. A. Millican, State agent, Austin, Texas.**

**Cotton-mill Machinery.—The Ashby Cotton Mills, Marion, S. C., is in the market for cone winders and Denn warpers. Address A. M. Price, Lincolnton, N. C.; or T. A. Blythe, Philadelphia, Pa.**

**Dredging Machinery.—H. F. Lincoln, Brunswick, Mo., wants to buy machinery for dredging pearl-bearing mussels.**

**Dry-kiln.—The Buford Manufacturing Co., Buford, Ga., wants dry-kiln outfit for lumber.**

**Electric-light Equipment.—Wanted—To purchase supplies for electric plant. Address commissioners of public works of Laurens, S. C.; L. G. Balle, secretary.**

**Electric-light Plant.—Proposals will be received for the erection of an electric-light plant for the town of Houma, La.; plant of twenty-five arc lights and 750 16-candle-power incandescent lights. Address R. L. Zelenka, chairman of committee.**

**Electric-light Plant.—Proposals will be opened October 12 for the erection of an electric-light plant for the city of Union, S. C. Plans and specifications in the hands of Commissioners F. M. Fan, T. C. Duncan and W. H. Sortar; copies on application.**

**Engine.—W. J. Lunsford, Hiltons, Va., wants to buy a 16 or 18-horse-power engine and saw mill; second-hand machinery will answer.**

**Flour-mill Machinery.—Walter Hurst, Barnardville, N. C., would like to correspond with parties having flour-mill machinery for sale; mill to be run by water-power.**

**Gasoline Engine.—Prof. F. E. Daniels, St. John's College, Annapolis, Md., wants a complete set of castings for a 2 or 1½-horse-**



power gasoline engine, to be built in college shop.

Lubricating Oil and Petroleum Products. H. C. Chapman, Florence, S. C., wants to correspond with manufacturers of lubricating oils and petroleum products.

Machine Tools.—I. M. Calais, Florence, S. C., is in the market for a second-hand drill press.

Machine Tools.—Dan C. Crider, Kerrville, Texas, wants a small iron lathe, suitable for light gun work.

Metal Wheels.—J. E. Minter, Macon, Ga., wants to correspond with manufacturers of metal truck wheels.

Minerals, etc.—Ernest Mayo, Dickinson, Texas, wants names of manufacturers and dealers in kaolin and mineral paints.

Piping, etc.—H. C. Chapman, Florence, S. C., wants to correspond with manufacturers of piping, etc.

Pumping Station.—Office of Water Board, City Hall, Baltimore, Md.—Sealed proposals will be received until September 27 for the furnishing of all the materials and labor necessary for the erection and completion of the superstructure of the Mount Royal pumping station, at the corner of North avenue and McMechen street, according to the revised drawings and specifications of Architect Henry Brauns, which may be seen at rooms of the Builders' Exchange. Proposals must be in sealed envelopes addressed to the architect, and must be accompanied by a certified check for \$2500, drawn to the order of the water board. Proposals must be delivered at the mayor's office on or before September 27; T. J. Hayward, chairman engineers committee.

Railway Equipment.—W. J. Keenan, Columbia, S. C., wants five to six miles of 16-pound rails, light locomotive and four flat cars, suitable for hauling forty to fifty tons lumber or logs daily over even ground. Address, with location, gauge, condition and other particulars.

Railway Equipment.—J. T. Denny & Co., Rennett, N. C., want to buy or lease three miles of cheap T-rails, light-weight preferred.

Railway Equipment (Electric).—The Birmingham Traction Co., G. M. Williams, general manager, Birmingham, Ala., will in a short time be in the market for the equipment for electric railway.

Railway Equipments (Electric).—J. H. Cauffield, Creighton, Pa., wants addresses of builders of electric motors.

Saw Mill.—W. J. Lunsford, Hiltons, Va., wants to buy a 16 or 18-horse-power engine and saw mill; second-hand machinery will answer.

Speaking Tubes.—F. F. Bradway, Box 1299, New Orleans, La., wants addresses of manufacturers of speaking tubes.

Standpipes.—H. C. Chapman, Florence, S. C., wants to correspond with manufacturers of standpipes.

Telephone Equipment.—Telephone equipment, complete, will be wanted for a 50-mile line. Address Dr. J. C. Goodwin, Dunn, N. C.

Water Works.—The city of Statesville, N. C., will soon advertise for bids on the construction of water works, for which \$52,000 will be expended. Address L. Harrill, mayor. (Also see Construction Department item under Statesville, N. C.)

Water Works.—Proposals will be opened October 12 for the construction of water works at Union, S. C. Plans and specifications can be obtained by addressing F. M. Fan, T. C. Duncan and W. H. Sortar, commissioners.

Water Works.—Bids will be opened September 27 for furnishing material, tools and labor for the construction complete of the water works for the city of Sistersville, W. Va.; to include 900 lineal feet of eight-inch cast-iron pipe, with valves, hydrants, special castings, etc.; also steel dry well thirty-three feet deep by fourteen feet inside diameter, with concrete bottom, for pumping station 30x45 feet, framework of wood, covered with iron. Plans and specifications now on file; Geo. M. Gardiner, mayor, and Jos. P. Sweeney, recorder.

Well-drilling.—Proposals will be opened October 4 for the construction of a deep artesian well for the city of Fitzgerald, Ga.; C. C. Goodnow, mayor.

Windmills.—H. C. Chapman, Florence, S. C., wants to correspond with manufacturers of windmills.

Windmills.—J. R. Vandyce, 120 Liberty street, New York city, wants to correspond with manufacturers of windmills.

Woodworking Machinery.—Wm. Gratznowsky, Richmond, Va., wants a second-hand six-inch or seven-inch four-sided

molder in good condition; state number of inches of knives. Wants also a Porter carving machine and machines for making drop-wood carvings.

Woodworking Machinery.—J. C. Dudley, Bennettsville, S. C., wants to buy spoke, handle, rim and hub machinery; second-hand machinery preferred.

### TRADE NOTES.

Factory Building.—A brick building, 155x75 feet in size, suitable for manufacturing enterprise (especially cotton mill), is being offered for sale or lease by Chas. Haigh, of Fayetteville, N. C.

Scales Depot.—Messrs. W. J. Henry and Ed. Putnam, until recently with the Fairbanks Scale Co., at New Orleans, La., have opened a large scale repair shop and depot on Perdido street in that city.

Fire Escapes.—The Louisville (Ky.) school board has contracted with the Dow Wire Works Co., of Louisville, Ky., for Kirkhender fire escapes on fourteen school-houses at a total cost of \$12,948.

Power Hammer Works.—An important transaction was recently concluded at Cleveland, Ohio, whereby the Wals & Roos Punch & Shear Co., of Cincinnati, Ohio, has succeeded the Hackney Hammer Co. in the manufacture of the celebrated Hackney pneumatic power hammers.

Logging Locomotive.—A West Virginia lumber company writes the Climax Manufacturing Co., of Corry, Pa., highly recommending a logging locomotive which the latter recently sold it. The locomotive is being used on a 4 per cent. grade of wooden rails, and is said to be giving entire satisfaction.

Air Compressing.—The Ingersoll-Sergeant Drill Co., of 26 Cortlandt street, New York city, has received another order for air-compressing machinery from the contractors of the Jerome Park reservoir at New York. In the construction of this reservoir it will be necessary to excavate 3,165,000 cubic yards of solid rock, and almost every appliance being used in the work is operated by air-compression from plants installed by the Ingersoll-Sergeant Co.

The Southside Manufacturing Co., of Salem, N. C., (5000 spindles) will operate day and night commencing this week.

### A New Through Passenger Route for Colorado, Utah and California.

The Chicago Times-Herald of August 27 says that on September 12 the new traffic alliance between the Chicago, Milwaukee & St. Paul Railway and the Chicago, Rock Island & Pacific Railway goes into effect, and on that date the former will send its first Denver sleeper out of Chicago. This will be attached to its regular night train for Omaha, and will be delivered there to the Rock Island. On October 2 the tourist car route over these two lines, the Colorado Midland and Southern Pacific, will be inaugurated. Tourist cars will be run once a week between Chicago and San Francisco. For further details regarding this new route call on or address Geo. H. Heafford, general passenger and ticket agent Chicago, Milwaukee & St. Paul Railway, 410 Old Colony Building, Chicago, Ill.

### Niagara Falls—\$10 Excursions via Pennsylvania Railroad.

The last two ten-day excursions of the present season to Niagara Falls via the Pennsylvania Railroad will leave Philadelphia, Baltimore and Washington on September 16 and October 12. An experienced tourist agent and chaperon accompany each excursion.

Excursion tickets, good for return passage on any regular train, exclusive of limited express trains, within ten days, will be sold at \$10 from Philadelphia, Baltimore, Washington and all points on the Delaware Division; \$9.70 from Lancaster; \$8.60 from Altoona and Harrisburg; \$8.25 from Wilkesbarre; \$5.80 from Williamsport, and at proportionate rates from other points. A stop-over will be allowed at Buffalo, Rochester and Watkins, returning.

A special train of Pullman parlor cars any day coaches will be run with each excursion.

For further information apply to nearest ticket agent, or address Geo. W. Boyd, assistant general passenger agent, Broad Street Station, Philadelphia.

## PHOSPHATES.

### Phosphate Markets.

Baltimore, Md., September 23.

The local phosphate market is quiet, with the volume of business only moderate. Manufacturers are only buying in small quantities to meet immediate wants. The situation at points of production is unchanged, and in South Carolina the market is quiet, with prices nominally steady. Both land and river miners are working on the usual scale, and for the fiscal year just closed the shipments foreign, coastwise, interior and consumed are placed at 434,118 tons, against 445,004 tons for 1895-96. In Florida the work of mining is being pursued more or less vigorously, and in the pebble district shipments are larger this month than usual. Tennessee miners are generally busy, and both domestic and foreign shipments are increasing. In the local market there are no receipts reported for the week, while the charter business is dull. In New York the movement in sail tonnage was active during the week, and a number of charters for loading fertilizer and phosphate were reported. The following were reported during the past week: Schooner J. D. Marvill, 152 tons, Newark to Baltimore with fertilizer in bulk at \$1 and loaded; schooner Abbie Bowker, 182 tons, Cartaret to Norfolk with fertilizer at 60 cents; British steamer, 1834 tons, Fernandina to Hamburg with phosphate at 19/6, September; British steamer Sydenham, 1544 tons, Tampa to Kastrup with phosphate at 20/9, September; schooner Grace Andrews, 509 tons, Elizabethport to Savannah with fertilizer at \$1; a schooner, 405 tons, Barren Island to Charleston with garbage tankage at \$1.25 net, and schooner Thomas Booz, 290 tons, Philadelphia to Norfolk with fish scrap at \$1.

### Fertilizer Ingredients.

An active market for all material has ruled during the past week, and ammoniates are firm, with an advancing tendency. The market in the West is fairly active, with liberal offerings, which are readily taken at sellers' prices. There is a fair Southern demand, while the Eastern inquiry will be light for several weeks to come.

The following table represents the prices current at this date:

Sulphate of ammonia (gas). \$2 25 @  
Nitrate of soda..... 1 77 1/2 @



Blood .....	2 30 @
Hoof meal.....	1 75 @
Azotine (beef).....	1 92 1/2 @
Azotine (pork).....	1 92 1/2 @
Tankage (concentrated).....	1 90 @
Tankage (9 and 20).....	2 00 and 10
Tankage (7 and 30).....	17 00 @ 18 00
Fish (dry).....	19 00 @
Fish (acid).....	12 00 @

### Phosphate and Fertilizer Notes.

A fire occurred at the Horseshoe Phosphate Works, at Walterboro, S. C., last

week, resulting in a loss of about \$5000 to the owner of the mines and the temporary suspension of mining operations.

It is stated that Major C. O. Godfrey is operating extensively at his kaolin mines at Kaolin, Ala. He is at present filling a contract for 5000 tons. The clay is used in making bathtubs, glazed brick and sanitary vessels. A company will be formed at once with abundant capital to develop the deposits.

Major E. Willis in the Charleston News and Courier reports the shipments of South Carolina phosphate rock for 1896-97 as follows: Charleston, foreign 1300 tons, coastwise 96,972 tons, interior 79,000 tons and consumed 145,000 tons—total, 322,272 tons; Beaufort, foreign 75,108 tons, coastwise 4738 tons, interior 15,000 tons and consumed 17,000 tons—total, 111,846 tons, making a grand total of 434,118 tons, against 445,004 tons for the year 1895-96.

The shipments of Florida phosphate for the year ending August 31, 1897, were as follows: Fernandina, 160,720 tons foreign, 3328 tons domestic; Punta Gorda, 67,186 tons foreign, 46,713 tons domestic; Tampa, 94,591 tons foreign, 73,192 tons domestic; Savannah, 99,287 tons foreign; Key West, 45,000 tons foreign; Brunswick, 35,631 tons foreign; railroads, 40,000 tons domestic, and consumed 25,000 tons, making a total for the year of 690,648 tons, against 581,528 tons for 1895-96.

The following shipments of phosphate rock were made from the port of Charleston, S. C., last week: For Baltimore—schooners May H. Brockaway with 600 tons, Anna L. Munford with 790 tons, Fannie Reiche with 656 tons and May Lee Patton with 840 tons. The schooner George R. Congdon cleared for Barren Island with 642 tons, and the schooner Annie E. Ketchum for Philadelphia with 650 tons. The total shipments since September 1 amount to 2518 tons, against 6300 tons for the corresponding period last year.

### The Largest Ingot.

The Bethlehem Iron Co., of South Bethlehem, Pa., has issued a large photograph, of which we show a reduced cut, illustrating an ingot recently cast by that company, which is worthy of special mention. This ingot weighed 222,300 pounds, and is to be forged into a tube for a 16-inch gun for the United States

Army. There are two things about this ingot which will make it of special interest to all interested in the metallurgical industry of this country, and in the development of our coast defenses, for which this great gun is intended. The two things are that this is the largest ingot ever cast for this purpose, and that it is for the first 16-inch gun that has ever been made in the United States.



## FINANCIAL NEWS.

The Manufacturers' Record invites information about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussions of financial subjects bearing upon Southern matters.

No advertisements but those of a financial character will be accepted for this page.

### New Corporations.

The Wasserman Investment Co. has been incorporated at St. Louis, Mo., with \$100,000 capital, by D. A. Jamison, David Wasserman and others.

The People's Bank of Aiken, S. C., has elected F. B. Henderson, president, and S. L. Trotti, cashier. The bank expects to open for business early in October.

The business men of Raleigh, N. C., are forming an insurance company, with \$100,000 capital, to be known as the South Atlantic Life & Endowment Insurance Co.

The Shenandoah Trust & Title Co. has been organized at Charlestown, W. Va., with \$100,000 capital. E. H. MacDonald is president; D. S. Hughes, vice-president, and S. S. Dalgarn, secretary and treasurer.

George W. Purnell, George Covington and others, of Snow Hill, Md., have decided to open a bank with \$25,000 capital. It is reported that L. G. Dirickson, of Berlin, Md., is to be president, and George S. Payne, of Snow Hill, cashier.

### New Securities.

It is stated that the town of Orange, Texas, is about to sell \$11,000 worth of water-works bonds. The town clerk may be addressed.

It is reported that the town of Monroe, N. C., will sell the proposed issue of \$30,000 in bonds, as the money is needed for improvements. J. G. Covington may be addressed.

An election has been called for September 28 at Jackson, Miss., to vote on the issue of \$75,000 worth of bonds for improvements. The mayor will give further information.

It is announced that bids will be received until October 11 for the purchase of the issue of \$200,000 in 5 per cent. bonds which are to be issued by the city of Galveston, Texas.

It is reported that Montgomery county, Alabama, will receive bids until October 4 for the purpose of selling \$50,000 worth of 5 per cent. bonds. The board of commissioners may be addressed at Montgomery.

The Mason-Maxwell Telephone Manufacturing Co. has recorded deed of trust to the Maryland Trust Co. of Baltimore to secure an issue of \$25,000 worth of gold bonds which will bear interest at the rate of 6 per cent.

### Dividends and Interest.

The Suffolk & Carolina Railroad Co. has declared a dividend of \$1 per share.

The Acme Brewing Co., of Macon, Ga., has declared a semi-annual dividend of 4 per cent.

The Georgia Southern & Florida Railroad Co. has declared an annual dividend of 5 per cent. on its first preferred stock and 2 per cent. on its second preferred stock. The dividends amount to \$216,000.

### Financial Notes.

C. L. Pardo has been elected cashier of the Jennings Banking & Trust Co. of Jennings, La.

It is reported that the Huntington National Bank of Huntington, Va., may reduce its capital to \$100,000.

C. Q. Harris has been elected cashier of the First National Bank of Memphis,

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Tenn., and J. N. Fisher, cashier of the First National Bank of Morristown, in the same State.

The Lynchburg Trust and Savings Bank of Lynchburg, Va., at its annual meeting elected J. R. Gilliam, president; James A. Ford, vice-president, and D. A. Payne, secretary and treasurer.

### The Currency Conferees.

A glance over the names of the currency commission appointed by H. H. Hanna, under instructions of the Indianapolis Monetary Convention, reveals two pregnant facts. The one is that partisan politics has been an influence inferior to well-balanced geography in the selection of the members, and that professional and theoretical financiers have been, in the main, passed by for men of affairs, who have opportunities not usually enjoyed by isolated bankers, to feel the real pulse of the people. The commission, composed of eminent men, is particularly fortunate in including Mr. Stuyvesant Fish, of New York. His home is in the money centre of the country, but his active interests are largely in the West and South, traversed by the Illinois Central Railroad, of which he is president. To the practical knowledge of a diversity of conditions in different parts of the country are joined a large amount of plain, common sense, a mind conservative and judicial, and a readiness to give a reasonable hearing to an argument. His broadness of view in finance has been demonstrated in his interviews which have been published in the Manufacturers' Record. Mr. Fish will be able to contribute valuable suggestions to whatever plan the commission may consider.

J. WM. MIDDENDORF.

Members Baltimore Stock Exchange.

WM. E. OLIVER.

**MIDDENDORF, OLIVER & CO.**  
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Stocks and Bonds Bought and Sold on Commission. Special attention given to Municipal and other Investment Loans. Dealers in Foreign Exchange. Drafts on Europe and Letters of Credit furnished.

**SPERRY, JONES & CO.**  
DEALERS IN **Southern Investment Securities,**  
239 East German Street, Baltimore, Md.  
**OUR FACILITIES ARE UNEXCELLED.**

### TRADE NOTES.

Wm. A. Canty.—Mr. William A. Canty, formerly of the screw machine department of the Pratt & Whitney Co., Hartford, Conn., has severed his connection with that company to take the superintendency of the screw machine department of the Davis & Egan Machine Tool Co., Cincinnati, Ohio.

Corliss Engine.—The Murray Iron Works Co., of Burlington, Iowa, is building one of its well-known Sloux Corliss engines for the new Armour packing-house at Omaha. This engine is to be of the cross-compound-condensing type of 300 horse-power, and its design and construction will embody all the late improvements in high-grade engines.

Two Large Contracts.—Messrs. Warren Webster & Co., of Camden, N. J., have just received two large contracts, one to install the Webster system of steam heating in connection with the works of the Rand Drill Co., Tarrytown, N. Y., and the other to install the Webster system in connection with the large new Hudson Building, New York city. The Webster works are running to their full capacity and have a number of large prospective orders in sight, which proves the appreciation of the merit of the Webster system of steam heating and allied specialties.

### \$20,000 Worth of Bonds FOR SALE

By the Borough of Southern Pines, N. C. Bids received until 7 P. M., October 11th, 1897.

Address **S. S. THOMAS,**  
Southern Pines, N. C.

**JOHN L. WILLIAMS & SONS,**  
**BANKERS,**  
Dealers in **RIEHLAND, VA.**  
**Southern Investment Securities,**  
**MUNICIPAL BONDS A SPECIALTY.**  
Correspondence Invited.

### TO CONTRACTORS.

If you have any municipal bonds or warrants, taken in payment for building water-works, court or school houses, jails, etc., write us. Conditions being favorable, we can use them.

**F. M. STAFFORD & CO.**  
Dealers in Southern Municipal Securities,  
Chattanooga, Tenn.

### FOR THE Renting and Purchasing

OF  
**Warehouses,**  
**Manufacturing Sites,**  
**Wharf,**  
**and other Business Property,**  
Apply to  
**SAFE DEPOSIT & TRUST CO.**  
OF BALTIMORE.  
13 SOUTH STREET.

### Mercantile Trust & Deposit Co.

OF BALTIMORE.  
**Paid-up Capital, \$1,000,000.**  
**Surplus, \$1,000,000.**  
**DEPOSITS RECEIVED**  
On which interest is allowed, governed by current rates obtainable.  
**TRUSTEES AND ADMINISTRATORS.**  
This company is a *Legal Depository* for funds in the hands of Trustees or Administrators, and allows interest on same pending distribution.  
Authorized to act as Executor, Administrator, Guardian, Receiver or Trustee.  
**ACTS as Trustee of Mortgages of Corporations and accepts Transfer Agency and Registry of Stocks.**  
**Safe Deposit Boxes for Rent.**  
Vaults supplied for Storage of Silver Chests, etc.  
**JOHN GILL, of R., President.**

## MARYLAND TRUST CO.

Corner South and German Sts.  
**BALTIMORE.**

**CAPITAL, - \$1,000,000.**

**A LEGAL DEPOSITORY FOR COURT AND TRUST FUNDS.**

Acts as Financial Agent for States, Cities, Towns, Railroads and other Corporations. Transacts a general trust business. Lends money on approved security. Allows interest on special deposits. Acts as Trustee under Mortgages, Assignments and Deeds of Trust; as Agent for the Transfer or Registration of Stocks and Bonds, and for the payment of coupons, interest and dividends.

**J. WILLCOX BROWN, PRESIDENT.**  
**LYOUD L. JACKSON, FIRST VICE-PRES.**  
**HENRY J. BOWDOIN, SECOND VICE-PRES.**  
**J. BERNARD SCOTT, Secretary and Treasurer.**

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F. M. Thieriot, John R. Garrett.

## THE Big Union MINING Co.

Owens and is now opening up rich gold mines in the famous Leadville Gold Belt of Colorado. Its mines lie on the same contact vein with the most noted of the great Leadville mines. One of these, the "Little Johnny," is the greatest gold mine in Colorado and perhaps in the world. Its present output is about \$300,000 per month, and it is now paying monthly dividends of \$100,000 to \$200,000. The officers and stockholders of the company are not speculators but are well-known conservative business men. Here are some of them:

### OFFICERS:

**R. E. LYON, President.**  
**STEPHEN H. EMMENS, Vice-President.**  
**H. B. TILDEN, Treasurer.**

### DIRECTORS:

**B. L. Duke,** the great tobacco manufacturer of Durham, N. C.  
**W. T. O'Brien,** of the American Tobacco Co., Durham, N. C.  
**Stephen H. Emmens,** Pres. of the Mining and Industrial Exchange, New York City.  
**R. E. Lyon,** of Baltimore, Md.  
**L. D. Heartt,** Cashier First National Bank, Durham, N. C.  
**H. B. Tilden,** of Baltimore, Md.

The stock of this company has been listed on the New York Mining and Industrial Exchange. The office of the company is at 849 Equitable Building, Baltimore, Md.

The treasury stock now being offered affords an investment opportunity that is well worth looking into.

The company does not care to sell in small lots, but will be glad to confer with investors with reference to the purchase of large blocks. The officers feel confident that the facts to be presented concerning the company's property will appeal to the best informed and most conservative and cautious investor.



# Alphabetical Index of Advertisers.

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A		B		C		D		E		F		G		H		I		J		K		L		M		N		O		P		Q		R		S		T		U		V		W		X		Y		Z																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Abbe, M. F.	35	Babcock & Wilcox Co.	15	Cady, C. N.	10	Dallett & Co.	22	Easton Burnham Machine Co.	29	Falst Rivet & Machine Co.	23	Gallert, S.	21	Haigh, Chas.	20	Illinois Central Railroad.	31	Jackson Mfg. Co.	19	Kansas City, Pittsburg & Gulf R. R.	31	Lagonda Mfg. Co.	2	Marion Steam Shovel Co.	2	N 650.	20	Ober Lathe Co.	27	Pancoast, Henry B., & Co.	23	Quaker City Electric Co.	37	Rand Drill Co.	16	Sabel Bros.	22	Taylor, A. W., Land & Lumber Co.	21	Union Drawn Steel Co.	23	Valdosta Foundry & Machine Co.	14	Walker & Elliott.	21	York Mfg. Co.	36																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Acme Malleable Iron Works.	19	Baeder, Adamson & Co.	12	Baltimore Engraving Co.	34	Damascus Bronze Co.	13	Eccles, S., Jr.	2	Farquhar, A. B., Co., Limited.	27	Gandy Belting Co.	10	Haines, Jones & Cadbury Co.	38	India Alkali Works.	28	Jeffrey Mfg. Co.	30	Keeler, E., Co.	9	Lambert Gas & Gasoline Eng. Co.	16	McDonald, John, & Sons.	6	Martin, Hy., Brick Mch. Mfg. Co.	22	McClave, Brooks & Co.	9	Panchoast Ventilator Co.	24	Queen City Printing Ink Co.	37	Rawson Electric Co.	37	Ritter & Conley.	13	Robbins & Myers Co.	6	Santa Fe Route.	139	Seal the	139	Smith, Frank A.	9	Smith, S. Morgan, Co.	33	Smith & Kilby Co.	33	Snow Steam Pump Works.	32	Southeastern Lime & Cement Co.	6	Southern Fdry & Mch. Works.	21	Southern Iron & Equipment Co.	22	Southern Iron Works.	12	Southern Log Cart & Supply Co.	16	Southern Railway Co.	31	Southern Real Estate Exchange.	21	Spears, Alden, Sons & Co.	24	Sperry, Jones & Co.	139	Springfield Gas Engine Co.	16	Sprout, Waldron & Co.	17	Stafford, F. M., & Co.	139	Standard Coal Co.	8	Standard Mill Supply Co.	28	Standard Oil Co.	25	Standard Paint Co.	25	Standard Tool Co.	36	Stanley Electric Mfg. Co.	36	Starr, B. F., & Co.	17	Steel Rail Supply Co.	22	Sterling Emery Wheel Mfg. Co.	28	Stevens, H., Sons Co.	28	Stewart, Jas., & Co.	6	Stiles & Fladd Press Co.	8	Stillwell-Bierce & Smith-Valle Co.	30	Stow Mfg. Co.	10	Struthers, Wells & Co.	10	Stuebner, G. L., Iron Works.	8	Sturtevant, B. F., & Co.	29	Sturtevant Mill Co.	34	Sullivan Machinery Co.	34	Taylor, A. W., Land & Lumber Co.	21	Thomas, S. S.	139	Toomey, Frank.	21	Trenton Iron Co.	16	Trevor Mfg. Co.	27	Tudor Boiler Mfg. Co.	15	Union Drawn Steel Co.	23	Union Electric Co.	37	Union Iron Works Co.	37	United Electric Improvement Co.	37	U. S. Sanitary Co.	1	Valdosta Foundry & Machine Co.	14	Valk & Murdoch Iron Works.	15	Valley Iron Works.	9	Vanduzen Co., The E. W.	33	Van Noorden, E., & Co.	6	Van Wie, Irwin.	33	Vitrified Wheel Co.	2	Wais & Roos Punch & Shear Co.	21	Walker & Elliott.	21	Warren Chemical & Mfg. Co.	24	Washington State Co.	1	Watkins & Hardaway.	6	Watson, Benjamin.	22	Webster, Warren, & Co.	2	Weir Frog Co.	37	Western Electrical Supply Co.	37	Western Maryland Railroad.	31	Westinghouse Air Brake Co., The.	2	Westinghouse Elec. & Mfg. Co.	36	Westinghouse Machine Co.	14	Wetherill, Robt., & Co.	15	Whaley, W. B. Smith, & Co.	6	Wheeling & Lake Erie Railway.	31	White, L. & J. J., Co.	27	Whitinsville Spinning Ring Co.	27	Whitney, Baxter D.	27	Wilkinson Mfg. Co.	15	Williams Bros.	33	Williams, Haskins, & Co.	22	Williams, I. B., & Sons.	10	Williams, J. H., & Co.	36	Williams, John L., & Son.	139	Williams & Hanks.	23	Williams & Schmid.	1	Williamsport Machine Co.	27	Willis, E.	21	Wilson Laundry Machinery Co.	17	Wolf & Co., Aug.	17	Wolf Co., Fred, W.	36	Wood, R. D., & Co.	18	Worthington, Henry R.	12	Wright Co., The.	12	Wrightsville Hardware Co.	24																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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A., & Egan Co.	26	Fay Manila Roofing Co.	25	Fernandina Oil & Creosote Works.	22	Fidelity & Deposit Co. of Md.	19	Fifield Tool Co.	12	Fitz-Hugh & Co.	22	Fogg, A.	22	Foos Gas Engine Co.	16	Foos Mfg. Co.	35	Forbes, W. D., & Co.	14	Forsyth, S. C., Machine Co.	27	Fort Wayne Electric Corporation.	37	Fossick Co., T. L.	6	Freese, E. M., & Co.	2	French, Saml. H., & Co.	24	Frick Co.	14	Froehling, Dr. Henry.	6	Fuel Economizer Co.	17	Fulton, John.	6	Fulton Steam Boiler Wks. & Fdry.	1	Furbush, M. A., & Son, Mch. Co.	28	Gallert, S.	21	Gandy Belting Co.	10	Garrett, C. S., & Son.	25	Gas Engine & Power Co.	9	General Electric Co.	29, 37	General Fire Extinguisher Co.	8	Gilbert, C. M., & Co.	6	Glaskin, George F., & Co.	6	Glen Cove Machine Co., Ltd.	26	Golden's Foundry & Machine Co.	23	Goodnow, C. C.	19	Goubert Mfg. Co.	17	Graphite Lubricating Co.	13	Grasty, Robt. Ware.	21	Gregory Co., C. E.	21	Guilbert, John C. N.	8	Haigh, Chas.	20	Haines, Jones & Cadbury Co.	38	Haines, William S.	4	Hales & Ballinger.	6	Hanika, C., & Sons.	28	Harrington & King Perforating Co.	4	Hartford Steam Boiler Inspection & Insurance Co.	23	Hartley's Boiler Works.	15	Hawes Mfg. Co.	21	Hayes, O. S.	20, 21	Help Wanted.	20	Hench & Dromgold.	27	Hendrick Mfg. Co., Limited.	8	Hickman, Williams & Co.	22	Hiertz, Theo., & Son.	13	Hirsch, L. K.	22	Holmes, E. & B., Machinery Co.	26	Holmes Fibre Graphite Mfg. Co.	21	Holt, S. L., & Co.	21	Hoopes & Townsend.	23	Howard, B. C.	37	Howard-Harrison Iron Co.	8	Humphries Mfg. Co., The.	33	Huther Bros.	1	Hutton Engineering Co.	6	Illinois Central Railroad.	31	India Alkali Works.	28	Ingersoll-Sergeant Drill Co.	18	International Corres. Schools.	6	Jackson Mfg. Co.	19	Jeffrey Mfg. Co.	30	Jenkins Bros.	38	Jewell Belting Co.	11	Johns, H. W., Mfg. Co.	19	Joseph, Joseph, & Bros.	22	Kansas City, Pittsburg & Gulf R. R.	31	Keeler, E., Co.	9	Kelly, O. S., Co., The.	38	Kelly & Jones Co.	3	Kemper, C. E.	19	Kendrick Valve & Washer Co.	32	Keystone Crusher & Roller Co.	35	Kilbourne & Jacobs Mfg. Co.	38	Kilburn, Lincoln & Co.	28	Knowles Loom Works.	29	Knox, Henry E., Jr.	6	Kokomo Teleph. & Elec. Mfg. Co.	37	Lagonda Mfg. Co.	2	Lambert Gas & Gasoline Eng. Co.	16	Lambert Hoisting Engine Co.	14	Lane Manufacturing Co.	27	Lang, S. Logan.	21	Leffel, James, & Co.	33	Lehigh Valley Brass Works.	15	Leisenring Mfg. Co.	16	Leonard, Foley & Co.	6	Lewis, E. M.	19	Lewis, H. F., & Co., Ltd.	28	Lidgerwood Manufacturing Co.	9	Lightning Wage Calculator Co.	18	Link-Belt Engineering Co.	30	Loane, J. W.	34	Lobdell Car Wheel Co.	10	Lombard Iron Wks. & Supply Co.	9	Lorain Foundry Co.	13	Low, James P.	19	Lowell Machine Shop.	28	Lowell Textile School.	1	Ludlow-Saylor Wire Co.	24	Ludlow Valve Mfg. Co.	23	Lunkenheimer Co.	38	Lyon, A. I.	2	Main Belting Co.	11	Makepeace, C. R., & Co.	6	Manistee Iron Works.	32	Manufacturer Sash, Doors & Blinds	20	Marion Steam Shovel Co.	2	Martin, Hy., Brick Mch. Mfg. Co.	22	Maryland Mfg. & Construction Co.	15	Maryland Trust Co.	139	Mason Machine Works.	28	Mason Regulator Co.	33	McClave, Brooks & Co.	9	McCully, R.	35	McDonald, John, & Sons.	6	McDowell, Hamilton.	31	McFadden, Charles, Jr.	6	McGowan, John H., Co.	33	McKenna, David.	1	McLanahan & Stone.	35	Mead, Y. A., Cycle Co.	19	Mecklenburg Iron Works.	14	Mercantile Trust & Deposit Co.	139	Merchants & Miners' Transp. Co.	31	Meres, C. R., Heater Mfg. Co.	8	Mercantile Machine Shops.	28	Meyer, Dr. Otto.	6	Middendorf, Oliver & Co.	139	Milburn, Frank P.	6	Miller Bros. & Co.	6	Miller Tempered Copper Co.	19	Mitshkun, M., & Co.	22	Moore & McCrary.	6	More, Jones & Co.	13	Morse Twist Drill Mch. Co.	2	Morse, Williams & Co.	24	Mueller, H., Mfg. Co.	33	Mundt & Sons.	34	Munson Bros.	17	Murphy, John, & Co.	9	Murray, Dougal & Co.	28	Murray, James & Son.	35	N 650.	20	National Pipe Bending Co.	17	National Roofing & Supply Co.	25	New Atlantic Hotel.	10	N. J. Car Spring & Rubber Co.	11	Newburg Ice Mch. & Engine Co.	36	Newport News Shipbuilding & Dry Dock Co.	15	New Process Rawhide Co.	10	New York Equipment Co.	22	New York Fireproof Covering Co.	4	Niagara Stamping & Tool Co.	6	Nicholson File Co.	6	Nordyke & Marmon Co.	8	Norfolk & Western R. R.	31	Norrish, Burnham & Co.	33	North American Metaline Co.	9	Norton Emery Wheel Co.	27	Nye & Tredick.	28	Ober Lathe Co.	27	Otto Gas Engine Works.	16	Pancoast, Henry B., & Co.	23	Pancoast Ventilator Co.	24	Patitz, A. M.	2	Paxson, J. W., & Co.	2	Peacock, George.	22	Pechin, T. E.	11	Peck-Hammond Co.	6	Penberthy Injector Co.	38	Perkins Mfg. Co.	22	Pettee Machine Works.	29	Philadelphia Bourse.	9	Philadelphia Eng. Works, Ltd.	14	Phila. Machine Screw Works.	14	Philadelphia Steel Roofing Co.	25	Philadelphia Textile School.	19	Pierce-Crouch Engine Co.	16	Piqua Copying Machine Co.	10	Pittsburg Locomotive Works.	13	Pittsburgh Plate Glass Co.	25	Pittsburg Tool Steel Co.	8	Playford Stoker Co.	15	P. O. Box L.	20	Pomona Terra Cotta Co.	32	Poor, H. V. & H. W.	34	Pope Mfg. Co.	19	Porter, H. K., & Co.	13	Poulter & Co.	22	Powhatan Clay Mfg. Co.	25	Pratt, N. P., Laboratory.	6	Pratt & Whitney Co.	12	Pratt & Weir Chuck Co.	38	Price & Co.	22	Price & Heald.	22	Priestman & Co.	16	Providence Machine Co.	29	Pulsometer Steam Pump Co.	32	Quaker City Electric Co.	37	Queen City Printing Ink Co.	37	Queen City Supply Co.	11	Rand Drill Co.	16	Rawson Electric Co.	37	Raymond & Gray.	37	Record Printing House.	1	Reed, F. E., Co.	12	Reliance Gauge Co.	6	Remington Machine Co.	36	Repauno Chemical Co.	10	Rhoads, J. E., & Sons.	11	Richmond Loco. & Mch. Wks.	13	Ritter & Conley.	13	Robbins & Myers Co.	6	Roberts Mfg. Co.	2	Robertson, Jas., Mfg. Co.	30	Robinson, J. M., & Co.	35	Robinson, Wm. C., & Son.	24	Robinson & Ott.	28	Rowley & Hermance Co.	27	Ruger, J. W., & Co.	16	Sabel Bros.	22	Safe Deposit & Trust Co.	22	Santa Fe Route.	139	Saunders, D., Sons.	12	Schieren, Chas. A., & Co.	12	Scott & Williams.	11	Seabury, Charles L., & Co.	28	Seidel, R. B.	9	Shaw, Willis.	4	Shawhan-Thresher Electric Co.	37	Shultz Belting Co.	37	Siedler, C.	11	Simpson, H. P.	21	Simpson, J. S. & G. F.	35	Sinclair-Scott Co.	38	Sinclair, S. H., Co.	10	Situations Wanted.	14	Skinner Chuck Co.	20	Smethurst & Allen.	37	Smith-Courtney Co.	37	Smith, Frank A.	9	Smith, S. Morgan, Co.	33	Smith & Kilby Co.	33	Snediker & Carr.	24	Snow Steam Pump Works.	32	Southeastern Lime & Cement Co.	6	Southern Fdry & Mch. Works.	21	Southern Iron & Equipment Co.	22	Southern Iron Works.	12	Southern Log Cart & Supply Co.	16	Southern Railway Co.	31	Southern Real Estate Exchange.	21	Spears, Alden, Sons & Co.	24	Sperry, Jones & Co.	139	Springfield Gas Engine Co.	16	Sprout, Waldron & Co.	17	Stafford, F. M., & Co.	139	Standard Coal Co.	8	Standard Mill Supply Co.	28	Standard Oil Co.	25	Standard Paint Co.	25	Standard Tool Co.	36	Stanley Electric Mfg. Co.	36	Starr, B. F., & Co.	17	Steel Rail Supply Co.	22	Sterling Emery Wheel Mfg. Co.	28	Stevens, H., Sons Co.	28	Stewart, Jas., & Co.	6	Stiles & Fladd Press Co.	8	Stillwell-Bierce & Smith-Valle Co.	30	Stow Mfg. Co.	10	Struthers, Wells & Co.	10	Stuebner, G. L., Iron Works.	8	Sturtevant, B. F., & Co.	29	Sturtevant Mill Co.	34	Sullivan Machinery Co.	34	Taylor, A. W., Land & Lumber Co.	21	Thomas, S. S.	139	Toomey, Frank.	21	Trenton Iron Co.	16	Trevor Mfg. Co.	27	Tudor Boiler Mfg. Co.	15	Union Drawn Steel Co.	23	Union Electric Co.	37	Union Iron Works Co.	37	United Electric Improvement Co.	37	U. S. Sanitary Co.	1	Valdosta Foundry & Machine Co.	14	Valk & Murdoch Iron Works.	15	Valley Iron Works.	9	Vanduzen Co., The E. W.	33	Van Noorden, E., & Co.	6	Van Wie, Irwin.	33	Vitrified Wheel Co.	2	Wais & Roos Punch & Shear Co.	21	Walker & Elliott.	21	Warren Chemical & Mfg. Co.	24	Washington State Co.	1	Watkins & Hardaway.	6	Watson, Benjamin.	22	Webster, Warren, & Co.	2	Weir Frog Co.	37	Western Electrical Supply Co.	37	Western Maryland Railroad.	31	Westinghouse Air Brake Co., The.	2	Westinghouse Elec. & Mfg. Co.	36	Westinghouse Machine Co.	14	Wetherill, Robt., & Co.	15	Whaley, W. B. Smith, & Co.	6	Wheeling & Lake Erie Railway.	31	White, L. & J. J., Co.	27	Whitinsville Spinning Ring Co.	27	Whitney, Baxter D.	27	Wilkinson Mfg. Co.	15	Williams Bros.	33	Williams, Haskins, & Co.	22	Williams, I. B., & Sons.	10	Williams, J. H., & Co.	36	Williams, John L., & Son.	139	Williams & Hanks.	23	Williams & Schmid.	1	Williamsport Machine Co.	27	Willis, E.	21	Wilson Laundry Machinery Co.	17	Wolf & Co., Aug.	17	Wolf Co., Fred, W.	36	Wood, R. D., & Co.	18	Worthington, Henry R.	12	Wright Co., The.	12	Wrightsville Hardware Co.	24
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Ads. marked thus \* appear every other week.  
Ads. marked thus † appear in first issue of each month.  
Ads. marked thus ‡ not in this issue.



**SURETY BONDS.****Fidelity & Deposit Company of Maryland**

Home Office, Cor. Charles and Lexington Streets.

**BALTIMORE, MD.**

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**HERMAN E. BOSLER,**  
Secretary and Treasurer.**EDWIN WARFIELD,**  
President.**PROPOSALS.**

**MAYOR'S OFFICE, Fitzgerald, Ga., C. C. Goodnow, Mayor, September 16th, 1897.**—Sealed proposals will be received at the office of the Mayor, Fitzgerald, Georgia, until 6 o'clock P. M., Monday, October 4th, 1897, for the construction of a deep Artesian Well, as per specifications on file in the office of the Mayor. The right is reserved to reject any and all bids. C. C. GOODNOW, Mayor.

**WATERWORKS AND ELECTRIC LIGHTS.** Sealed proposals for constructing a system of waterworks will be received by the Commissioners of Public Works of the town of Union, S. C., until 4 o'clock P. M. the 12th day of October, 1897, and opened immediately thereafter. Also at same time and place, sealed proposals will be received by said Commissioners for constructing an electric lighting plant. Each bid must have certified check for five hundred dollars as per specifications. The Commissioners reserve the right to reject any or all bids. Specifications and further information furnished on application to the chairman.

F. M. FARR, Chairman,  
T. C. DUNCAN,  
W. H. SORTAS,

N. WILSON DAVIS, Engineer. Commissioners.

**TREASURY DEPARTMENT, Office Supervising Architect, Washington, D. C., September 16, 1897.**—Sealed proposals will be received at this office until 2 o'clock P. M. on the 12th day of October, 1897, and opened immediately thereafter, for all the labor and materials required for the plumbing and gas piping for the U. S. Appraisers' Warehouse, New York, N. Y., in accordance with drawings and specifications, copies of which may be had at this office, or the office of the Superintendent at New York, N. Y. Each bid must be accompanied by a certified check for a sum not less than 2 per cent. of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated for opening will be returned to the bidders. CHARLES E. KEMPER, Acting Supervising Architect.

**TREASURY DEPARTMENT, Office Supervising Architect, Washington, D. C., September 17, 1897.**—Sealed proposals will be received at this office until 2 o'clock P. M. on the 14th day of October, 1897, and opened immediately thereafter, for all the labor and materials required to place in position complete a tower clock for the U. S. Court House, Post Office, &c., at Detroit, Mich., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Detroit, Michigan. Each bid must be accompanied by a certified check for a sum not less than 2 per cent. of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. C. E. KEMPER, Acting Supervising Architect.

**TREASURY DEPARTMENT, Office Supervising Architect, Washington, D. C., September 7, 1897.**—Sealed proposals will be received at this office until 2 o'clock P. M. on the 5th day of October, 1897, (to be then immediately opened), for all the labor and material required to complete the approaches to the U. S. Post Office, Court House and Custom House at St. Paul, Minnesota, in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Superintendent at St. Paul, Minn. With each bid must be enclosed a certified check for a sum not less than 2 per cent. of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. JAMES P. LOW, Acting Supervising Architect.

**TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., September 4, 1897.**—Sealed proposals will be received at this office until 2 o'clock P. M. on the 29th day of September, 1897, and opened immediately thereafter, for all the labor and materials required for the erection and completion, (except heating apparatus, vault doors and tower clock,) of the U. S. Post Office, &c., building at Paterson, N. J., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Paterson, New Jersey. Each bid must be accompanied by a certified check for a sum not less than 2 per cent. of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. JAMES P. LOW, Acting Supervising Architect.

**TREASURY DEPARTMENT, Office Supervising Architect, Washington, D. C., September 13, 1897.**—Sealed proposals will be received at this office until 2 o'clock P. M. on the 11th day of October, 1897, and opened immediately thereafter, for supplying and delivering at Freight Depot at place of destination, the Post Office Lock Boxes, Lock Drawers, Locks, Pulls, Plates, &c., for U. S. Public Buildings, in accordance with drawing and specification, as may be ordered during the fiscal year ending June 30, 1898. Proposals must be made on the blank form provided by the Department, securely enveloped and sealed and endorsed "Proposals for furnishing lock boxes, &c., for U. S. Post Offices," and addressed to the Supervising Architect of the Treasury Department, and each bid must be accompanied by a certified check for \$1,000. Blank forms of proposals with drawing and full specification will be furnished on application to the Treasury Department, Wash-

ington, D. C. Proposals must be transmitted in time to reach the Supervising Architect's office before the hour set for opening. No proposal received after that time will be considered, but will be returned to the bidders.

**WEST VIRGINIA, Marshall County Court, Clerk's Office, September 8th, 1897.** Sealed proposals will be received at the office of the undersigned until 12 o'clock noon, September 28th, 1897, for building complete, ready for travel, a highway bridge with iron or steel substructure over Fish Creek at Shepherds Ford, about 8 miles south of Glen Easton, the nearest railroad station. Bridge to be of steel, floor 2 1/2-inch oak, oak wheel guard, steel joists and hand rail; main span 180 ft. c. to c. of cylinders, 2 shore spans, each 30 ft. c. to c. of supports; roadway 14 ft. in clear; clear height of bridge above water 27 ft.; cylinders 30 ft. x 48 in.; steel posts for shore spans 75 lb.; truss 100 lb.; floor, local load, 2 tons per wheel; factor of safety 5; ends of shore spans next to bank dropped 1 ft. Work to be done in accordance with plans and specifications now on file in this office, and to be completed within 45 days after signing contract. Penalty for delay \$25 per day. Each bidder must file with his bid a certified check for \$500 as a guarantee of good faith, check to be forfeited to county in case the successful bidder fails to execute a proper bond and contract. The Court reserves the right to reject any or all bids and will require bond of the successful bidder. Bids to be endorsed "Bid for building Shepherd Bridge." E. M. LEWIS, Clerk.  
C. C. Smith Engineer Moundsville, W. Va.

P. O. Box 127.

**BRADFORD'S DETECTIVE AGENCY,**

M. BRADFORD, Supt.

82 Bank Street, NORFOLK, VA.

Legitimate work solicited in any part of the country. Write for references.

"PURITY—SOLIDITY—DURABILITY."

**MITCHELL TEMPERED COPPER CO.**  
Corry, Pa.

COMMUTATOR BARS AND SEGMENTS.

Heavy or Light Pure Copper Castings.

**YES! We are Manufacturers of**  
**KNOBBS**—Porcelain, Jet, Enameled, etc., orders filled at short notice.  
BUTCHERS and SALOON KEEPERS' Ice Box and Refrigerator Locks and Trimmings of newest designs and beautiful finish. Largest manufacturers in the U. S. Full line of GENERAL BUILDERS' HARDWARE, etc. High Grade Light Gray Iron Castings, soft, smooth, easily drilled. Bronze, Brass and Composition Castings, Japanning, Electro, Brass, Bronze, Silver and Nickel Plating.  
Address  
**ALLENTOWN HARDWARE WORKS, Allentown, Pa.**

**\$12. 3000 BICYCLES.**

Must Be Closed Out at Once.



Standard '97 Model guaranteed, \$14 to \$30. '96 Models \$12 to \$20. 2d-hand wheels \$5 to \$15. Shipped to anyone on approval without advance deposit. Great factory clearing sale.

**EARN A BICYCLE**

by helping advertise us. We will give one agent in each town FREE USE of a sample wheel to introduce them. Write at once for our special offer.

**Y. A. MEAD CYCLE CO.**  
CHICAGO, ILL.**BICYCLES.**

All Makes of Second-Hand Bicycles at Rock Bottom Prices.

All Wheels in Good Serviceable Condition.

**WM. H. COLE & SONS.**

14 S. Charles Street, BALTIMORE, MD.

**ECO MAGNETO WATCHMAN'S**  
ELECTRIC CLOCK.

Indorsed by all Insurance Companies. Write for Catalogue.

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621 Atlantic Ave., BOSTON, MASS.

**ASPHALT PAVEMENTS**

Enhance the Value of Property One-Third.

**DURABLE HEALTHFUL NOISELESS**

20,000,000 square yards laid in eighteen years.

For plans and estimates apply to

**THE BARBER ASPHALT PAVING COMPANY,**  
General Office, 11 Broadway, New York.**Boiler and Pipe Coverings.**

The most EFFICIENT and DURABLE Non-Conducting Coverings in the world.

Fire-Proof. Easily Applied.

**Asbestos Materials**

of all kinds.

Wicking, Fibre, Mill Board, Felt, Packing, Cement, Liquid Paints, Roof Paints, Fire-Proof Paints, etc.

**ASBESTOS****H. W. JOHNS M'FG CO.,**

100 William St., NEW YORK.

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PHILADELPHIA.

BOSTON.

**Philadelphia Textile School.****MOST COMPLETE**  
--- IN THE WORLD.**FOURTEENTH YEAR.**

Endorsed by Educators and Manufacturers everywhere. Teaches the DESIGNING and MANUFACTURE of ALL classes of textiles. Day classes open October 4th. Evening classes open October 11th, 1897. Send for catalogue. Address

**E. W. FRANCE, Director, Broad and Pine Sts., Philadelphia.****MALLEABLE CASTINGS.**

STRONG AS STEEL. EASILY MACHINED.

QUICK DELIVERY.

**ACME MALLEABLE IRON WORKS, BUFFALO, N. Y.****JACKSON MANUFACTURING CO.**

Harrisburg, Pa., U. S. A.

**Manufacturers STEEL BARROWS**

For Mills, Furnaces, Mines, Farms, Railroads.

**MINING CARS, CHARGING BARROWS, WIRE ROPE THIMBLES.**

Orders received through any reliable commission house.

**The Columbia Bicycle Prize Competition**  
.. in Photography**CLOSES OCT. 1, 1897.**

We caution all competitors to have their photographs in on time, as those received after October first will not be considered.

**The Prizes are as follows:**

- 1st Prize, One 1897 Columbia Tandem, \$125.
- 2nd Prize, One 1897 Columbia Bicycle, 75.
- 3rd Prize, One 1896 Columbia Bicycle, 60.
- 4th Prize, One 1897 Hartford Bicycle, 50.
- 5th Prize, One 1897 Hartford Bicycle, 40.

And will be awarded as soon as possible after October 1st, 1897.

Address, ART DEPARTMENT,

**POPE MANUFACTURING COMPANY,**  
HARTFORD, CONN.

Entrance to this Competition is ABSOLUTELY FREE. Terms of Competition from any Columbia dealer, or by mail from us for the asking.

**THE BOOMER & BOSCHERT**  
KNUCKLE JOINT**PRESS**FOR SAILING  
Cloth, Paper, Yarn, &c.

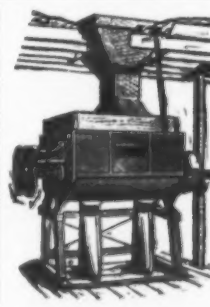
Or for any other purpose requiring great pressure.

**BOOMER & BOSCHERT PRESS CO.**

668 W. WATER ST., SYRACUSE, N. Y.

Subscribe to the Manufacturers' Record.

Price \$4 a year, or six months for \$2.

**THE BROUGHTON**  
**DRY MIXER,**  
FOR  
Hard Plaster, Cement, Paint, &c.**W. D. DUNNING,**  
616 W. Water St  
SYRACUSE, N. Y.



## HELP WANTED.

Advertisements under this head are inserted free of charge for readers of the MANUFACTURERS' RECORD. Advertisements must not exceed five lines—about thirty words—and four insertions will be given without charge.

**WANTED.**—An A1 knitter to run knitting machine under superintendent for ladies' ribbed underwear; must be sober and well recommended; young man preferred; moderate wages and permanent employment. Address KNITTER, care Manufacturers' Record. 015

**WANTED.**—Two good boiler salesmen; must be practical with good reference. Address C & H, care Manufacturers' Record. 015

**WANTED.**—A man with practical knowledge of manufacturing Spanish cedar. Address P. O. Box 285, Tampa, Fla. 08

**WANTED.**—A commission representative in every city, also traveling salesmen who are familiar with railroad and mill supplies. Address MANUFACTURER, Box 176, Wilmington, N. C. 08

**WANTED.**—First-class factory foreman, who understands handling machinery and the production of mill supply work. Right party can get steady situation and good salary. Address "FACTORY FOREMAN" care Manufacturers' Record. 524

**WANTED.**—Good machinist. Must be competent to repair wood-working machinery, operate lathe and do small forging. To right man we can offer steady employment, good salary and prompt pay. Address FORGEING, care Manufacturers' Record. 524

**WANTED.**—Experienced man to take charge of engine and keep mill machinery in order; to be an acid maker experienced in the running of brimstone burners and Gay-Lussac & Glover towers, to do small jobs of lead burning; state age, reference, whether married; must be sober and reliable. Address ACID, care Manufacturers' Record. 524

## SITUATIONS WANTED.

Advertisements under this head are inserted free of charge for readers of the MANUFACTURERS' RECORD. Advertisements must not exceed five lines—about thirty words—and four insertions will be given without charge.

**WANTED.**—Position by an energetic young man in any good enterprise that will insure fair salary; some good company preferred. Address WORK, care Mfrs Record. 015

**CHEMIST** wants position at blast furnace, steel works or mines, or at asphalt, cement or fertilizer works. Address L. P. N., care Manufacturers' Record. 015

**POSITION WANTED** by foundry foreman; experienced in dry, loam and green sand, architectural and machine work; can give reference. Address LOUIS ARNOLD, 1709 W. Chestnut St., Louisville, Ky. 015

**AN ENTERPRISING**, intelligent and reliable young man would like to take charge of Southern or Western firm's interests in Philadelphia; will superintend and operate local agents; can furnish references and security. Address WHITNEY, 3 N. 3rd St., Phila., Pa. 015

**WANTED.**—By young man with seventeen years' practical experience in the wood and tie business, a situation with a good firm. Satisfactory reference guaranteed. Address L, Box 418, Richmond Va. 015

**ENGINEER** wants position with structural iron concern; ten years' experience estimating, soliciting and superintending erection; state requirements and salary. Address "M," care of Manufacturers' Record. 08

**A MECHANICAL ENGINEER**, can do practical work anywhere in the shop, is a first-class draughtsman, can take charge of large or small work or office. Address H. K., care of Manufacturers' Record. 08

**WANTED.**—A young man (22) desires a position with manufacturing concern as bookkeeper and general office man. Have had long experience and can give good references. Address BOOKKEEPER, Box 374, Manchester, Va. 08

**WANTED.**—Bick manufacturer with twenty years experience desires position as foreman or general superintendent of brick manufacturing plant. Can give A1 references. Address BRICK MANUFACTURER, Box 9, Manchester, Va. 08

**SITUATION** wanted as superintendent or head burner by a No. 1 brick maker; dry press or stiff mud process; can dry your bricks cheap; expert in handling machinery and kiln building; 15 years experience; best of reference. Address BRADFORD, care Manufacturers' Record. 08

**WANTED.**—A position in a roller flour mill as assistant on flour where I can finish my trade; have had some years experience, principally on bolted cornmeal; will come on trial for 30 or 60 days; can bring references, etc.; wages not so much an object as a good home. Address WALLACE M. MILLS, Leesburg, Loudoun Co., Va. 08

**SITUATION** wanted as traveling salesman for some good machinery house. Can command a good trade. Having 5 years' experience on the road "TRAVELING SALESMAN," care Manufacturers' Record. 01

**MECHANICAL** engineer and draughtsman, age 35, specialist in the design and construction of coal and iron mining machinery of every description, desires responsible position; understands surveying; excellent references. Address W. H. P., care Manufacturers' Record. 524

**A YOUNG MAN**, graduate of Eastman College, in bookkeeping and stenography, desires a position where he can make himself useful; ten years' business experience and fair telegraph operator; first-class references as to character, ability, etc. VIRGINIA, 57 Garden St., Poughkeepsie, N. Y. 524

**WANTED.**—By a young man, position as locomotive engineer with contractor, construction, new railway or lumber company; had five years experience in road service and on construction work; can furnish good references. Address J. J. BROT, 769 Wells St., St. Paul, Minn. 524

# SPECIAL Advertisements OF GENERAL Interest.

## OPPORTUNITIES FOR INVESTORS.

## FOR SALE.

**NEW SAW MILL** complete, been in operation two years, 40,000 feet capacity, on the Kentucky River, line of the B. & C. G. R. R. The freight rate to Cincinnati 11c., Cleveland 20c., New York 29c., Boston 31c. We want to sell this property. For full information address

FRANK A. SMITH,  
Elyria, Ohio.

## FOR SALE.

**WOODWORKING FACTORY**, with 1½ acres of ground, at Asheville, N. C., on line of railway, thoroughly equipped with woodworking machinery of all kinds; in excellent condition; sidetrack from railway. Address

Asheville Woodworking Co.,  
Biltmore, N. C.

## FOR SALE.

## Up-to-date Wheel Factory

in one of the best Southern cities. 5 railroads. Capacity 150 sets of wheels per day. 10,000 finished spokes per day. Best of material right at door at cord-wood prices. Address

P. O. BOX L,  
Meridian, Miss.

## Capital for System of Waterworks.

PALESTINE, TEXAS, June 14, 1897.

The city of Palestine invites capital to construct and operate a thorough system of waterworks for furnishing an ample supply of pure and wholesome water for said city and its inhabitants, and will grant a liberal franchise to responsible parties. The slightest knowledge of our city and its surroundings is a sufficient guarantee that the installation of a water plant here would be a paying investment.

The population of the city is 10,931.  
Assessed valuation, \$4,206,775.  
Real valuation, \$4,000,000.

A. L. BOWERS,  
Mayor City of Palestine, Tex.

## ATTENTION, INVESTORS.

Our increasing business requires more working capital and we desire to increase our capital stock, now \$50,000, to \$70,000 or \$75,000. Would prefer to sell to competent office man who would take active interest in the business, but would sell to four or five reliable investors with guaranteed semi-annual dividend. Plant located in Central Georgia. All correspondence strictly confidential and best of references furnished.

Address  
Manufacturer Sash, Doors & Blinds,  
care Manufacturers' Record.

## For Sale or Lease.

Parties wishing to engage in manufacturing in the South can buy or lease, at low figures, a new one-story brick building 155 x 75 ft., with picker room, 8 acres of land attached, located in city of Fayetteville, N. C.

Building on line of C. F. & Y. V. Railroad, with switch, and 400 yards from Cape Fear River steamboat landing.

River competition with railroads converging from 5 different directions renders freight rates lower than at any other interior point in the state. Location healthy. Object being to establish an industry, terms unusually liberal. Address

CHAS. HAIGH, Pres.,  
Fayetteville, N. C.

## CHARLESTON, S. C. is entering upon an era of great commercial development.

## For Sale—Fine Residences, Choice Building Lots.

An ideal city for a winter home, full of historic interest, and a climate soft and mild in winter, but not hot enough to be enervating. Cost of living is cheap.

The city of Charleston's water supply is obtained from artesian wells, and it has recently been proven to be a valuable dyspeptic cure when used as drinking water, and a rheumatic cure when bathed in hot.

Also Farming Lands near Charleston, S. C., suitable for market gardening, which is a large and profitable industry in the vicinity of Charleston. Correspondence invited.

Exchange Banking & Trust Company,  
CHARLESTON, S. C.

## Open for an Arrangement with Machinery Builders

Seven years experience and an established business puts me in direct communication with the manufacturing South. Enquiries each day. They want machinery—they will have it. Let me have your proposition to establish myself with you permanently.

CHAS. S. BURGESS, Mechanical Engineer,  
THOMASVILLE N. C.

## FOR RENT.

## LARGE MACHINE SHOP,

With Power, on Railroad, with Private Tracks.

28,000 sq. ft.—more if needed. Electric traveling crane, hoists, shafting, machine foundations and other equipment.

Also other large well-equipped factory spaces, with power, adapted to manufacturers' uses.

THE BRUSH ELECTRIC CO.  
CLEVELAND, OHIO.

## FOR SALE.

Works of the Phosphate Mining Co., Limited.

Under order of the

United States Circuit Court for the District of South Carolina.

The valuable piece of property, being the works of the Phosphate Mining Co., Limited, generally called Brotherhood's, situated about 1¼ miles from Port Royal, S. C., consisting of about 24 acres, more or less. Having a river frontage on Battery Creek of 971 feet, with fine wharves, etc. Convenient for loading ocean steamers (have from this point carried down steamers loaded to 21 ft. 6 in.) The Port Royal & Augusta Railroad passes through the property and has suitable switch conveniently located.

On property is fine large open shed some 240 ft. by 70 ft., brick piers, with three railroad tracks overhead. Other desirable warehouse buildings with overhead railroad trestles from wharves, boiler-house, etc. Desirable dwelling houses and out houses. Fine artesian well and large brick cisterns.

A most desirable site for Cotton Mill, Manufacturing, Warehouse purposes, Ocean Shipments.

For particulars apply to

F. BROTHERHOOD, Receiver,  
1723 Thames Street, BALTIMORE, MD

## CAPITAL

FOR

## SOAP FACTORY

PRACTICAL SOAPMAKER, who has had charge of one of the largest and most successful soap factories in the East for a number of years, desires to start in for himself and to interest capital with the view of establishing a soap factory in suitable location. Big profits.

Address N 650,  
Care Manufacturers' Record.

## ORANGES.

Forty acres of the finest fruit land in Orange county, Florida, unimproved, in the best orange section, eight miles from railroad; location healthy; only \$160 cash. Address O. S. HAYES, Agent, Statham, Ga.

## Sale of Waterworks Franchise Of the City of Mt. Sterling, Ky.

Regular meeting of the City Council of Mt. Sterling, Ky., held at its Council Chamber, in said city, on September 7, 1897.

Be it ordained by the Board of Council of the city of Mt. Sterling, Ky.

That the exclusive franchise for supplying said city and its inhabitants with water for a period of 20 years, and for that purpose the franchise, right or privilege of laying pipes and water mains through or under its streets and of erecting hydrants on said streets, and the right to maintain said pipes and hydrants so long as said franchise shall last, will be sold publicly to the highest and best bidder at or about 8 o'clock p. m., on October 1, 1897, at the Council Chamber in said city, the City Council reserves the right to reject any or all bids. The sale of said franchise will be made upon conditions that the purchaser thereof completes the construction of a waterworks plant of adequate capacity to supply said city and its inhabitants with water for said period, within one year from the granting of said franchise.

For the purpose of duly advertising the said sale of the said franchise, the City Clerk is directed to have this ordinance in each issue of the following named newspapers from this time to the date of sale, viz: Sentinel-Democrat, and Manufacturers' Record, Baltimore, and in the Cincinnati Enquirer for two times each week, Sundays and Wednesday.

ADAM BAUM, Mayor.

THOS. D. JONES, Clerk.

## IF YOU WANT TO KNOW

All about the

## Industrial South

There is only one way to obtain this information, that is by reading the

## Manufacturers' Record.

It tells you all about the Commercial and Industrial affairs of the South, and is worth to any live business man twenty-five times its subscription price.

FOUR DOLLARS PER YEAR.

Manufacturers' Record Publishing Company,  
BALTIMORE, MD.

## THE BRADSTREET Mercantile Agency

WAS ESTABLISHED IN 1849.

Is the oldest and financially the strongest organization of its kind, working in one interest and under one management, with more capital invested in the business, and expends more money every year for the collection and dissemination of its information than any similar institution in the world. Its reports are considered in the light of a guide by both investors and those contemplating the granting of credit. In addition to a large corps of skilled employees, more than one hundred thousand correspondents contribute the result of their investigation and opinions. Subscriptions are annual, and may commence at any time the subscriber elects. Details as to prices and terms will be furnished upon application.

CHARLES F. CLARK, President,  
Baltimore Office, Equitable Building.  
H. KERSHAW, Supt.



### For Sale at 50 Cents on the Dollar. Complete Modern Fertilizer Plant.

The Buildings, which were erected specially for a Fertilizer Plant, are new and conveniently arranged. The

**MACHINERY IS NEW**  
and was constructed by well known designers and manufacturers of fertilizer appliances. It is in every particular of the

**LATEST AND MOST IMPROVED TYPE.**  
The Plant is arranged for both, Acid Phosphate and Ammoniated Goods, and is in full running order. Now ready to be put at work at its full capacity. The Plant has a

**CAPACITY OF ABOUT 10,000 TONS**  
per year in complete goods. The Territory within the scope of this Plant includes Delaware, Maryland, Virginia, New Jersey and Pennsylvania. About 5000 tons are consumed yearly in the territory immediately adjacent to the works.

**TRANSPORTATION FACILITIES**  
exceptionally good, both rail and water communication is convenient. The labor cost is low. This Modern Plant may be purchased for a comparatively small investment. We shall be pleased to open correspondence with any one interested in the trade.

**WALKER & ELLIOTT,**  
WILMINGTON, DELAWARE, -U. S. A.

### AGENTS WANTED—To Sell the "Battle Ax" Hay Press.

Latest invention, Automatic, Ball Bearing, Compound Leverage, Self Contained. No gear wheels or springs. Full circle, Simple in construction, efficient in service. Write, prices, discounts.

**ALABAMA FOUNDRY & MACHINE WORKS,**  
NEW DECATUR, ALA.

## MICA.

I have some desirable Mica Properties for sale at low prices; also an excellent PLACER GOLD MINE.

**S. GALLERT,**  
RUTHERFORDTON, N. C.

### SALESMEN, See What \$30.00 Will Do.

**IT SECURES** for you the Agency of two (2) of the fastest-selling articles in the WORLD. \$15.00 to \$18.00 per week easily made. We positively GUARANTEE that if after 30 days' conscientious trial you find it is not as we claim, we will refund the money in full. MILL SUPPLY salesmen coin money carrying as a side line. MANUFACTURERS and all users of high-speed and belted machinery want our articles at sight. Write at once, for territory is being fast taken up.

**The HAWES MFG. CO.**  
1205 Ridge Avenue,  
PHILADELPHIA, PA.

....FOR SALE....

## Mineral, Farming AND Timber LANDS.

Can Supply following:

Asbestos Lands.	Ash Timber Lands.
Beauxite Lands.	Black Cypress Poles.
Chrome Iron.	Cement Gravel.
Coal Lands.	Corundum Lands.
Copper Lands.	Cotton Lands.
Cypress Lands.	Cedar Lands.
Fire Clay.	Farming Lands.
Graphite Deposit.	Gold Mines.
Granite Quarry.	Hemlock Timber Lands.
Iron Lands.	Juniper Lands.
Kaolin Mines.	Land for Colonies.
Mica Lands.	Manganese Lands.
Monazite Lands.	Marble Lands.
Nickel Lands.	Orange Groves.
Oyster Lands.	Phosphates, S. C.
Phosphates, Tennessee.	Phosphates, Florida.
Pine Lands.	Pasturage Lands.
Poplar Lands.	Palmetto Lands.
Pyrites Lands.	Rice Lands.
Sugar Lands.	Shooting Lands.
Sea Islands.	Tin Mine.
Talc Deposits.	Truck Farms.
Tie Lands.	Timber Lands.
Turpentine Lands.	Tan Bark Lands.
White Pine Lands.	White Oak Lands.
Walnut Timber.	

**E. WILLIS,**  
CHARLESTON, S. C.

### SAFE AND SURE CHANCE.

SAFE AND SURE investment. A PARTNER wanted with at least \$5000 cash. Development and industrial operations. References exchanged. Address O. S. HAYES, Industrial Agent S. A. L., Statham, Ga.

### ROBERT WARE GRASTY, Attorney and Counsellor-at-Law, EQUITABLE BUILDING, ATLANTA, GA.

General law practice. Collections, loans, money invested, options secured and information furnished concerning Southern properties of all kinds.

**STATHAM, JACKSON COUNTY, GA.**  
"The Ohio Colony" doing well. Land fertile and cheap, producing fruits, grain, grasses, hops, tobacco, etc. Water excellent. Address O. S. HAYES, V. P. for Georgia, Southern States Settlers' Association.

**MANUFACTURERS' attention** is called to the large six-story Central Power Station of the Capital Traction Company, covering an entire block in the very centre of the business section of the nation's capital city. Suitable space for light manufacturing plants and other business, with power, heat and electric light, can be obtained at moderate rates. Address  
**CAPITAL TRACTION COMPANY,**  
Washington, D. C.

### NOTICE.

We mine, manufacture, buy and sell all kinds of mineral paints, dry colors, minerals and clays. **ALPHA PAINT AND MINERAL CO.,** 338 Bourse Building, Philadelphia, Pa.

### WANTED.

**Machinery to Manufacture**  
We have a thoroughly equipped Machine shop, Carpenter Shop and Foundry, and can do all classes of Machine Work very reasonable. Try us.

**SOUTHERN FOUNDRY & MACHINE WORKS,**  
FREDERICKSBURG, VA.

### WATER POWER FOR SALE.

Wateree River falls 51 feet through Wateree boat canal, producing many thousand horse power. Massive granite locks in good repair. Four miles from railroad. Near Camden, S. C. Correspondence and inspection invited.

**S. LOGAN LANG,**  
CAMDEN, S. C.

For Sale to Close Out Business.

**26,000 ACRES OF LAND,**  
From 4 to 16 miles from Summerville, S. C. a noted health resort, containing long and short leaf pine, oak, hickory ash, cypress, etc. Contains excellent farming and pasture land, and is convertible into a game preserve. Also second-hand machinery in good order.  
**A. W. TAYLOR LAND & LUMBER CO.**  
SUMMERVILLE, S. C.

## ELECTRIC POWER TO RENT

In the  
Famous  
Piedmont  
Belt.

Located at Anderson, S. C., on branch lines of both the Southern and S. A. L. Railroads.

Our new Power Plant for the development of 5000 horse-power on Seneca River, and its transmission to Anderson, is nearly completed, when we will be able to supply electric power in and adjacent to Anderson at rates lower than it is possible to make steam power. An abundant supply of cotton of the best grade is grown in Anderson county, and good labor is both cheap and plentiful. The climate is as good as could be found anywhere, and real estate is to be had at reasonable prices.

### AN IDEAL LOCATION FOR COTTON MILLS.

We only have one here now, and there is room for more. There is also plenty of room for other manufacturing enterprises, which could employ this electric power to their advantage. Write us for particulars and rates for power. Address

**WM. C. WHITNER,**  
General Manager,  
**ANDERSON WATER, LIGHT & POWER CO.**

### TIMBER LAND.

**21,000 Acres**  
Virgin Forest in best timbered section of West Virginia. Experts measured off several one acre blocks on N., S., E. and W. portions of this tract, and then measured the timber thereon, using Scribner's Lumber and Log Book. Best acre measured 86,037 feet B. M.; thinnest acre, 10,964 feet; general average, 39,271 feet per acre, divided as follows, viz: Hemlock, 19,016 feet; Spruce, 11,358 feet; Cherry, 2,778 feet; Maple, 2,077 feet; Birch, 1,212 feet; Sugar, 948 feet; Ash, 794 feet; Beech, 818 feet, and Cucumber, 270 feet. Total amount of merchantable timber on this tract (approximated)

**863,962,000 FEET.**

The Title is Guaranteed to be Absolutely Perfect. Price and terms very reasonable. Sworn statement of the experts and detailed information sent upon application to **THE SOUTHERN REAL ESTATE EXCHANGE,** Clarksburg, W. Va.

## Bargains in Machinery

FOR IMMEDIATE  
DELIVERY

### YOU CAN SAVE MONEY

by buying your Dynamos, Lamps, Generators, Motors, etc., from us. apparatus guaranteed to be in excellent operative condition. Central stations and isolated plants can turn scrap dynamos, wire and incandescent lamps into cash by writing to us.

**THE CORNMANN COMPANY,**

1136 Hamilton Street, CLEVELAND, OHIO.

### FOR SALE—MILL AND LOGGING OUTFIT.

One 12 ton geared Locomotive, and 13 Scott's patent Logging Cars, for 3 ft. gauge wood rail track; also one 40m. capacity Saw Mill, and one Shingle Mill. All of above is in first-class condition. Will sell any part or all. For full description and prices write to

**H. F. ANDREWS,**  
Garland, Pa.

### FOR SALE.

**GESSNER STEAM PRESS,**  
good as new, 65 inch pressing surface.  
**BELLEVUE WORSTED MILLS,**  
GERMANTOWN, PA.

### FOR SALE.

**Two Morgan Traveling Cranes,**  
Each ten tons capacity, span 45 feet 6 inches. In first-class condition.

**THE WESTINGHOUSE MACHINE CO**  
PITTSBURGH, PA.

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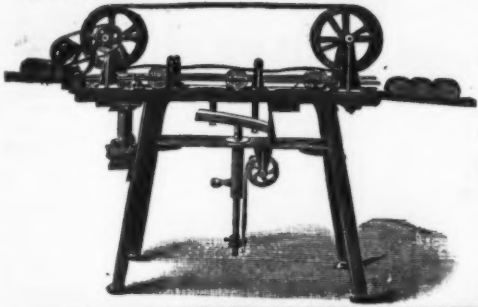
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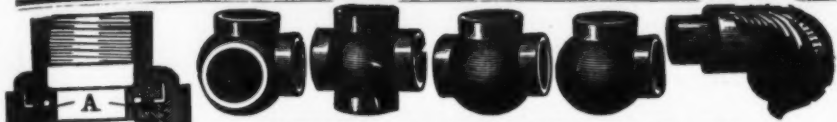


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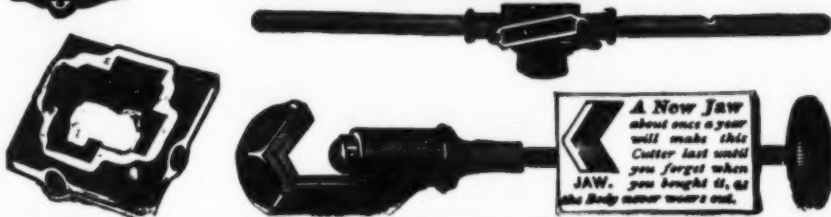
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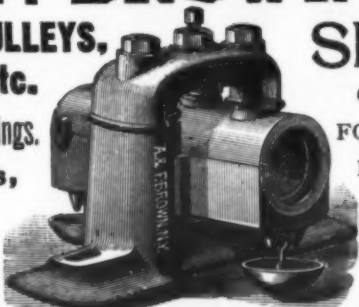
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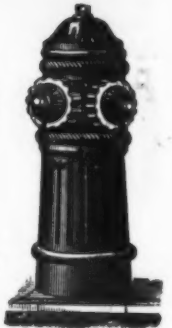
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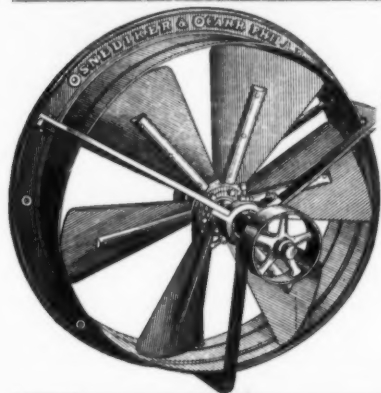
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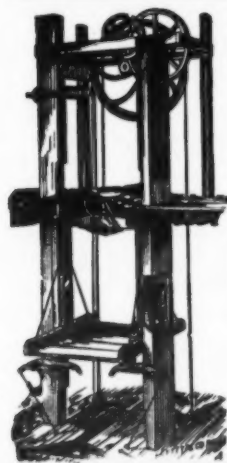
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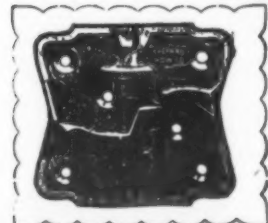
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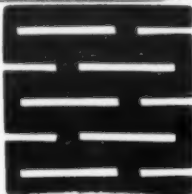


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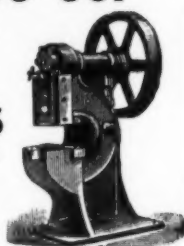
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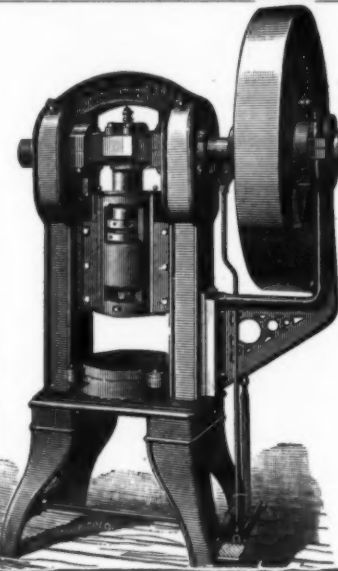
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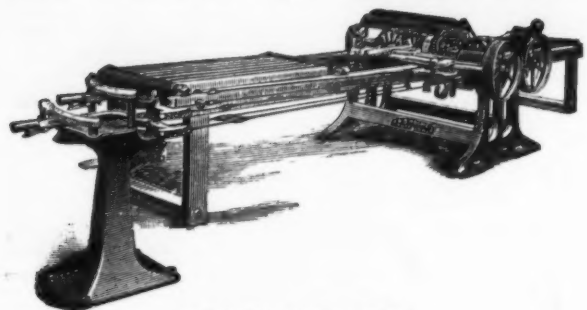


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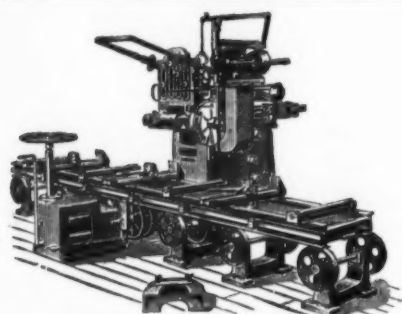


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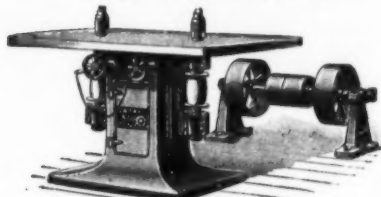
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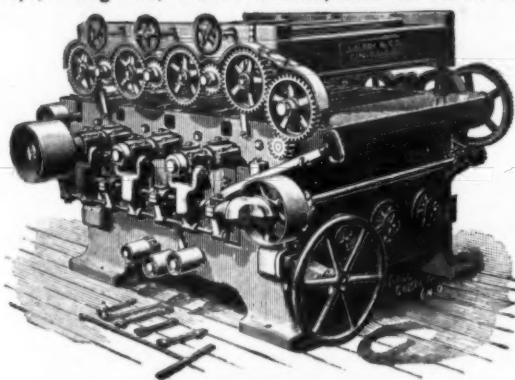
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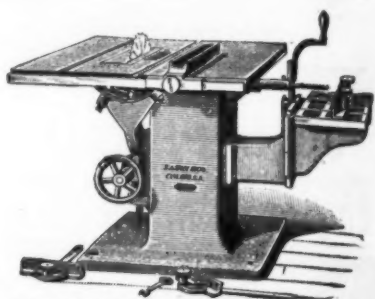
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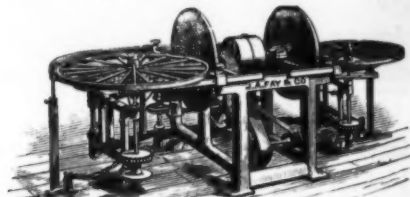
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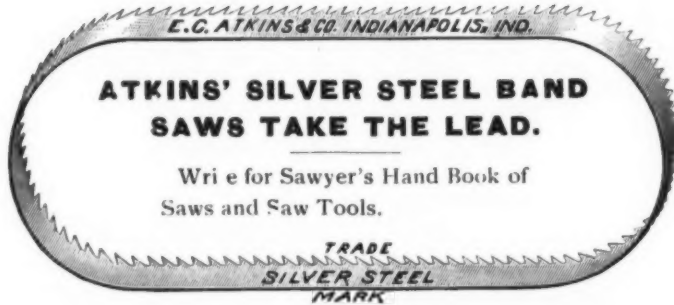
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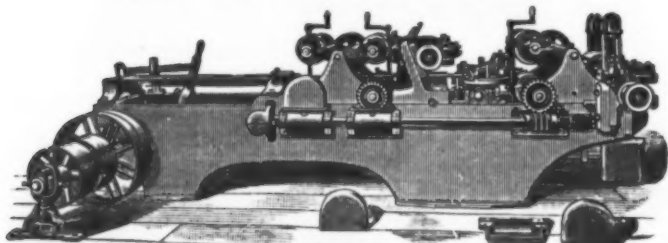
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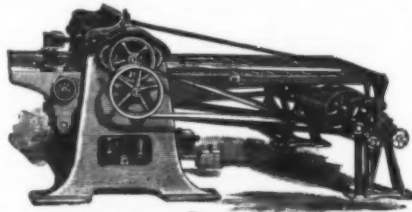
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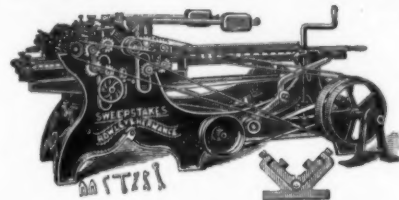
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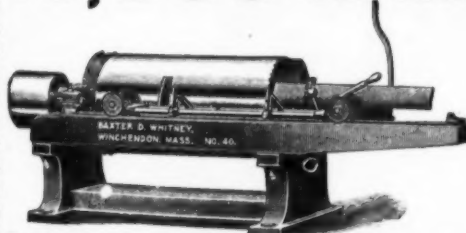
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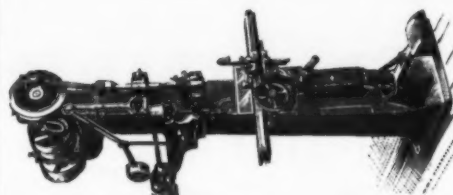
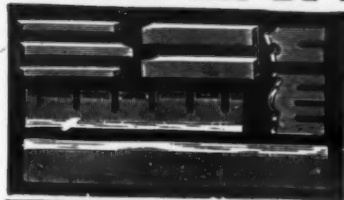
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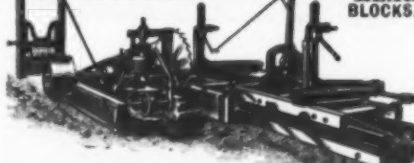
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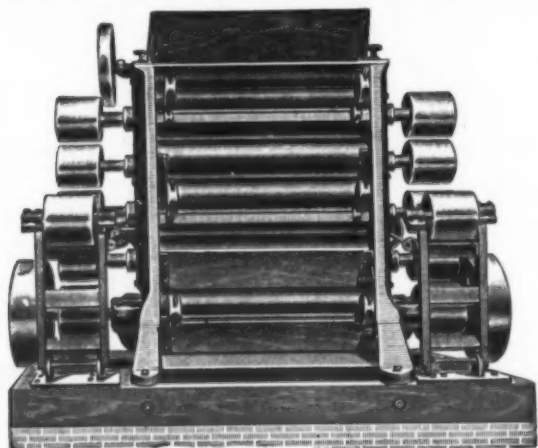
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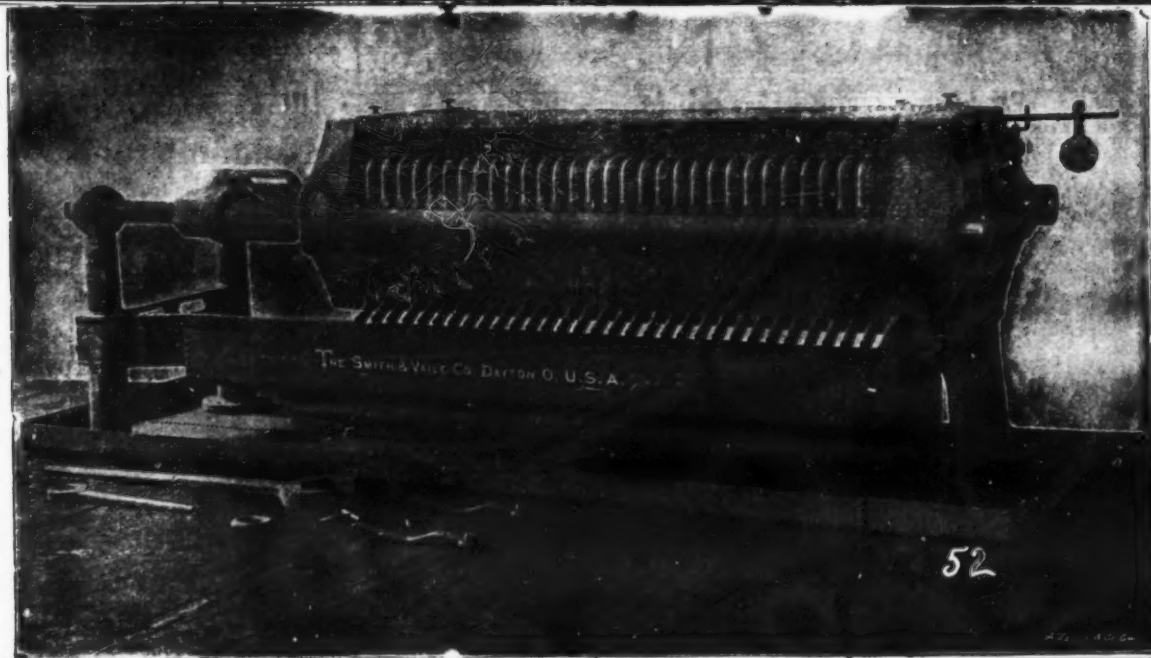
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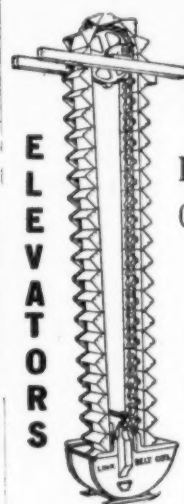
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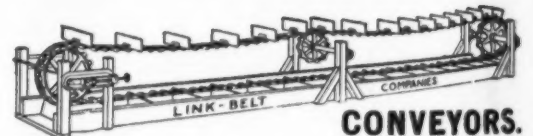
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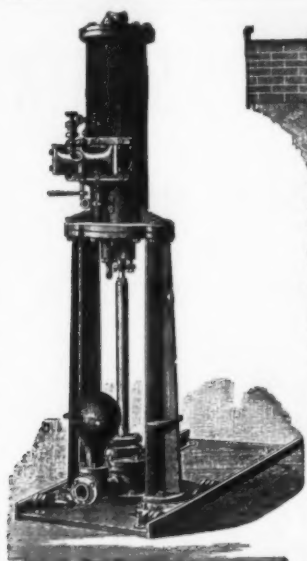
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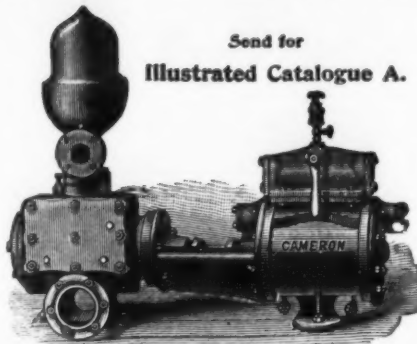
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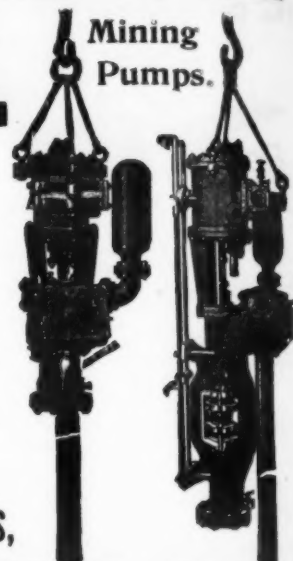


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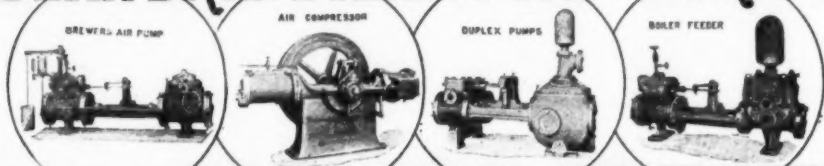
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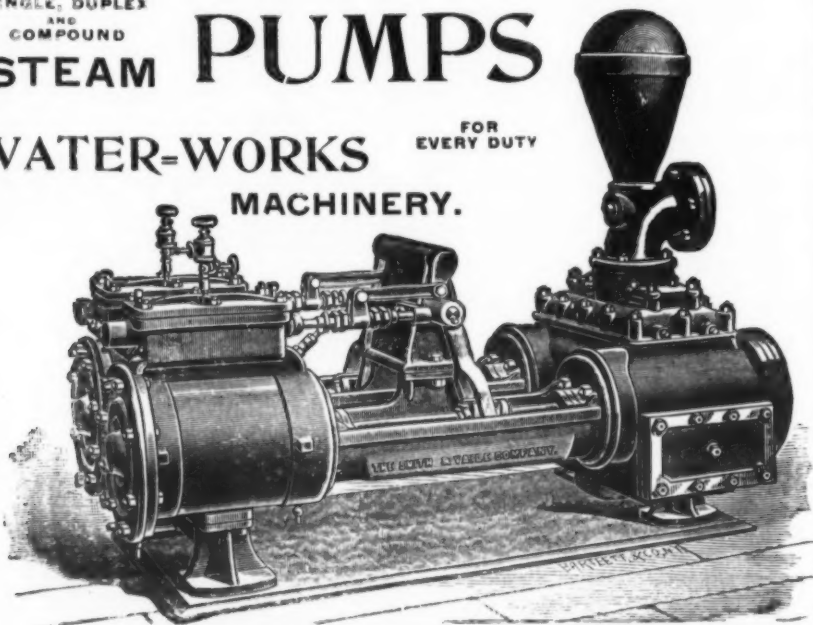
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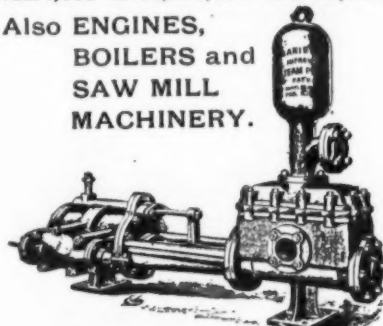
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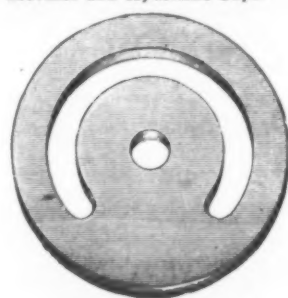
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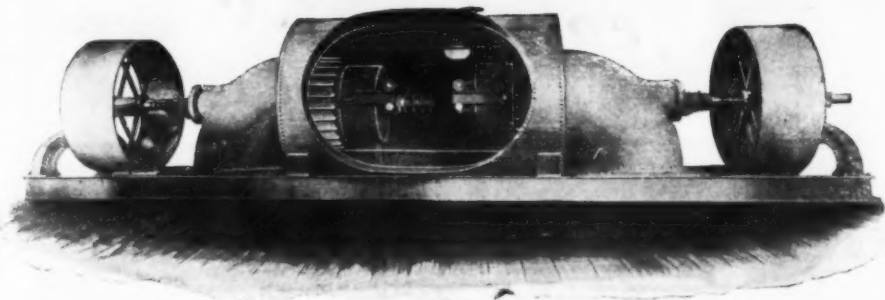
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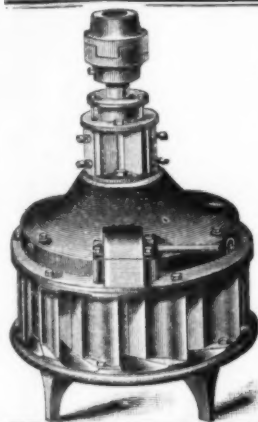
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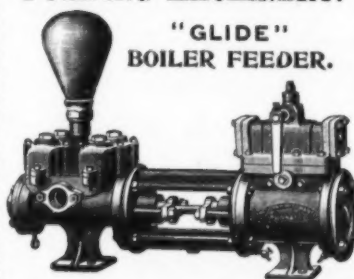
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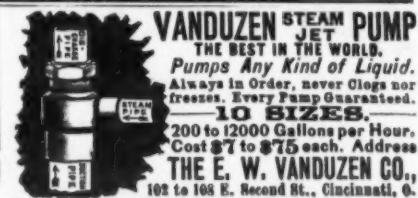
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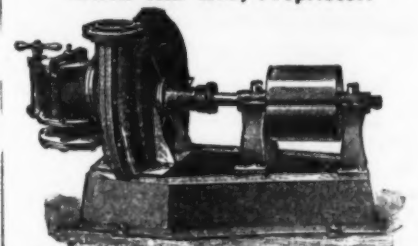
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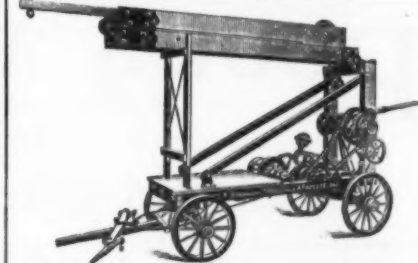
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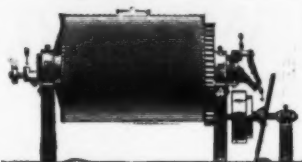
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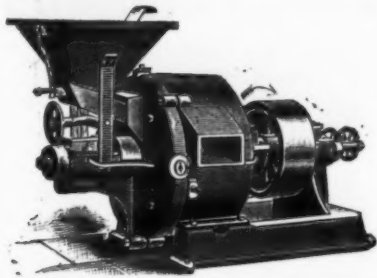
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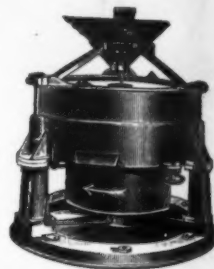
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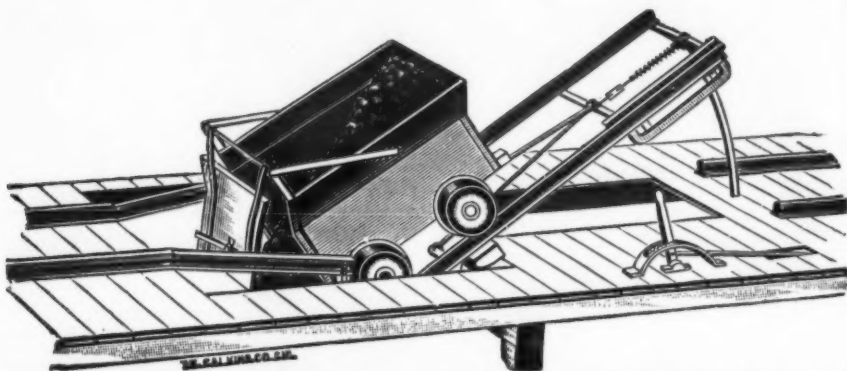
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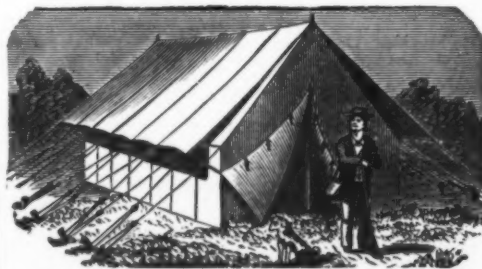
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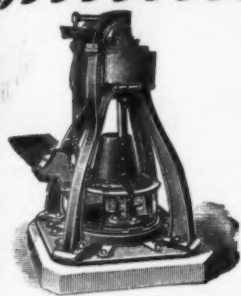
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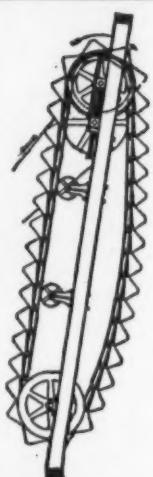


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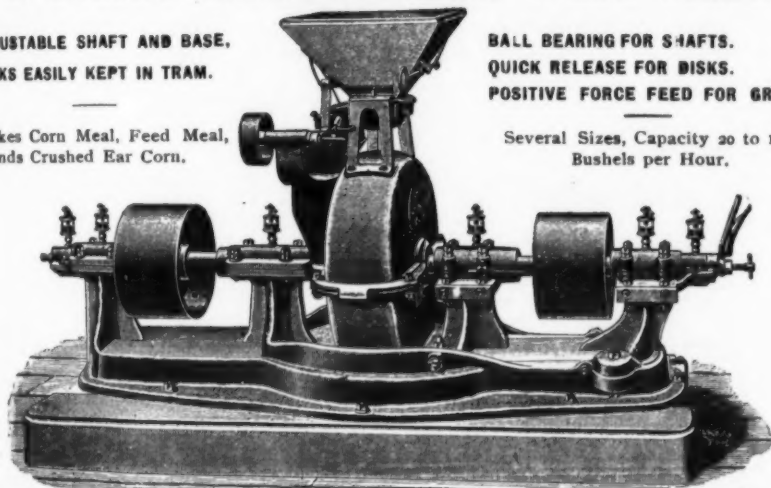
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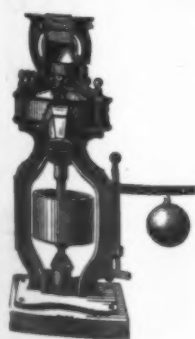
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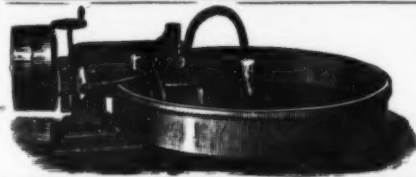
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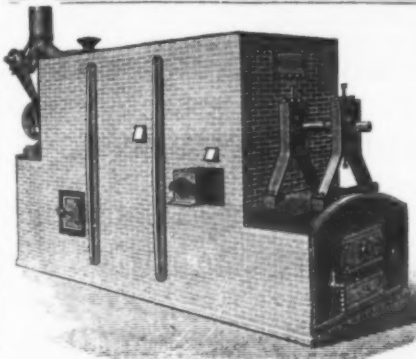
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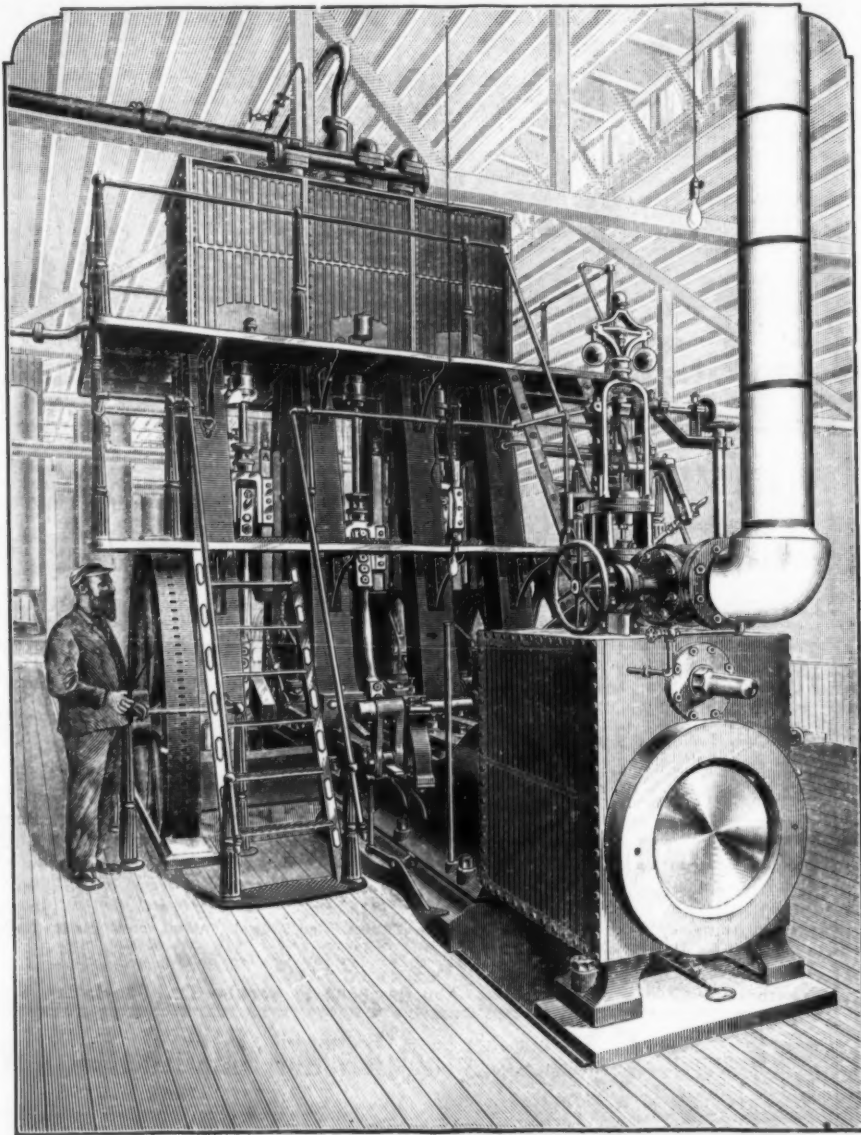
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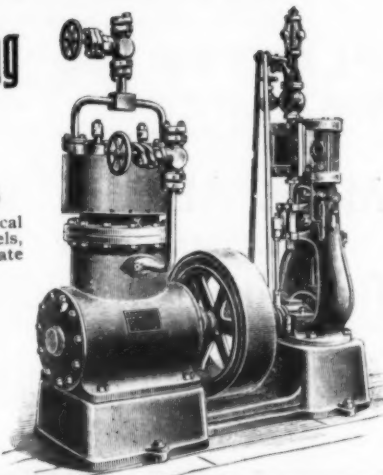
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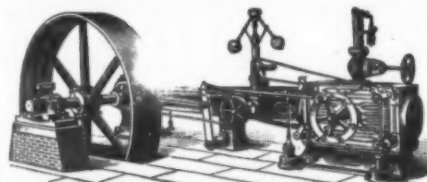
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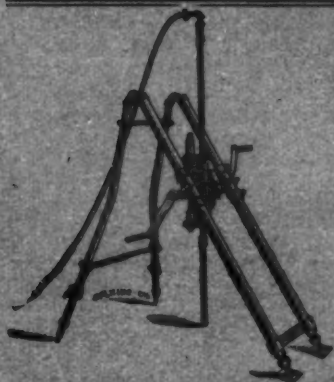
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